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June 20, 2024

Mr. Jeffrey Kavanaugh
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East Side Vapor Intrusion Sampling Status Report – January 2023 to February 2024
Former CMW Facility
VRP Project Number 6000101
Indianapolis, Indiana

Dear Mr. Kavanaugh:

1. Introduction

On behalf of Battery Properties, Inc. (BPI), GHD has prepared this letter summarizing activities associated with the east side residential vapor intrusion and preferential pathway sampling conducted during January, March, and August 2023, and February 2024. The results from the January event were submitted to the Indiana Department of Environmental Management (IDEM) in a February 22, 2023 email and were further discussed in a virtual meeting on February 24, 2023 between GHD and IDEM. The east side properties are located adjacent and to the east of the former Contact Metals Welding (CMW) facility at 70 South Gray Street in Indianapolis (CMW Site) and the former Administration Building located at 3029 East Washington Street, which is part of the former P.R. Mallory facility (PRM Site). BPI enrolled the former CMW Site under the IDEM Voluntary Remediation Program (VRP) Project #6000101. BPI also has VRP Project #6170902 for the remainder of the Site located at 3029 East Washington Street which includes the Administration and Bunker buildings. Due to the proximity and the distribution of impacts this document is being reported under VRP #6000101. CMW is managing the CMW Site under a separate State Cleanup Program (Site #00000396). Figures 1 and 2 provide a Site Location map and Site Plan, respectively.

This report provides a summary of the vapor sampling activities completed between January 2023 to February 2024 and a discussion of the results.

2. Residential VI Activities

2.1 Residential Outreach Activities

Prior to each sampling event, GHD conducted outreach to the properties located within the Off-Site established vapor intrusion (VI) area of interest (AOI) east of the CMW Site. One property (64 Dearborn Street) has been identified as a safety concern for staff. GHD has removed this property from outreach and sampling activities per safety concern discussions with IDEM. All outreach activities were completed in accordance with IDEM's third party access guidance¹. Previous attempts to access the properties are documented in prior reports. GHD will continue to contact and sample these properties during subsequent vapor sampling events and may request IDEM's assistance to help secure access for sampling should the need arise.

2.1.1 January & March 2023

During the January 2023 sampling event, GHD conducted outreach to nine of the nine properties; however, only four properties provided access. As a result, VI sampling was performed at four of the nine residential properties located within the east side VI AOI. The following list identifies all nine residential properties, with the sampled properties identified in bold. The properties are further identified and depicted on Figure 3.

- **9 South Gray Street,**
- 11 South Gray Street,
- 15 South Gray Street,
- **17 South Gray Street,**
- 33 South Gray Street,
- 35 South Gray Street,
- 37 South Gray Street,
- **43 South Gray Street,** and
- **3216 Moore Avenue.**

During the January 2023 sampling event, two properties exhibited trichloroethene (TCE) concentration levels above the Action Level (10X the Residential Indoor Air Published Levels (RIAPL)) of 20 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) (43 South Gray Street and 3216 Moore Avenue). GHD subsequently inquired with the CMW property owner and learned that the interim sewer vapor extraction (SVE) system that was placed on the sewers near the former CMW property became nonoperational on January 29 and did not become operational until after GHD conducted the January 2023 VI sampling event on January 30-31, 2023. The interim sewer vapor extraction system removes vapors from the sewers to prevent vapor migration into nearby houses. Analytical results have shown decreases of VI exceedances when the system is operational. In March 2023, GHD conducted outreach at the two properties with January 2023 results above the Action Level for TCE; however, only one of the two properties (3216 Moore Avenue) provided access to conduct additional sampling.

The outreach for properties that have not provided access during this period are summarized below.

11 South Gray Street

- January 16, 2023: Tenant did not answer the door.
- January 17, 2023: Tenant did not answer the door.
- February 2, 2023: Called owner of property. Owner did not answer. The tenant at 9 South Gray Street informed GHD that 11 South Gray Street is currently vacant.

¹ IDEM's Nonrule Policy, November 13, 2015, *Procedures for Gaining Access to Third Party Properties by Responsible Parties Performing Remediation* guidance.

15 South Gray Street

- January 16, 2023: Tenant did not answer the door and permission to sample was not obtained. When knocking on the door staff noted aggressive dogs at the property and did not feel comfortable going back to house. Attempts were made to locate a phone number for the owner.

33 South Gray Street

- January 16, 2023: Stopped by property. Sampling scheduled for January 30 and 31, 2023.
- January 27, 2023: Stopped by property to remind resident of scheduled sampling event. Resident rescheduled to February 6 and 7, 2023 due to a death in the family.
- February 3, 2023: Talked to resident. Resident rescheduled for February 9 and 10, 2023.
- February 9, 2023: Stopped by and resident stated that they wanted to hold off sampling.

35 South Gray Street

- January 16, 2023: Stopped at property, which appeared to be occupied. No response.
- January 17, 2023: Stopped at property. No response.
- January 27, 2023: Stopped at property. No response.

37 South Gray Street

- January 16, 2023: Stopped by the property to arrange VI sampling. No one was home.
- January 17, 2023: Stopped by the property to arrange VI sampling. No one was home.
- January 27, 2023: Stopped by the property to arrange VI sampling. No one was home.
- February 2, 2023: Called owner of property. Owner did not answer. Left message to call GHD to schedule a time for sampling. The owner did not return the call.

43 South Gray Street

- Sampled property on January 31, 2023. TCE results were above Action Levels prompting attempts to resample the property.
- March 10, 2023: Stopped by property to set up scheduling another round of sampling. No answer.
- March 13, 2023: Stopped by property to set up scheduling another round of sampling. No answer.
- March 14, 2023: Called tenant. Tenant did not answer.
- March 16, 2023: Called tenant. Tenant did not answer.
- March 17, 2023: Stopped by property to set up scheduling another round of sampling. No answer.
- March 20, 2023: Called tenant. Tenant did not answer.
- March 29, 2023: Place door hanger letter asking for tenant to call and set up sample times.

2.1.2 August 2023 & February 2024

During the August 2023 sampling event, GHD conducted outreach to seven of the nine properties; however, only five properties provided access. As a result, VI sampling was performed at five of the nine residential properties located within the east side VI AOI. The following list identifies all nine residential properties, with the sampled properties identified in bold. The properties are further identified and depicted on Figure 4.

- **9 South Gray Street,**
- **11 South Gray Street,**
- 15 South Gray Street,
- **17 South Gray Street,**
- 33 South Gray Street,
- 35 South Gray Street,
- 37 South Gray Street,
- **43 South Gray Street, and**
- **3216 Moore Avenue.**

GHD conducted a subsequent VI sampling event in February 2024 at the properties sampled in August 2023 in conjunction with preferential pathway sewer sampling. However, only two of five properties were successfully sampled (17 South Gray and 3216 Moore Avenue). Contacts for 9 South Gray Street and 11 South Gray Street were not available or home during the scheduled and agreed upon sampling time on February 14, 2024. The owner of 43 South Gray Street did not provide access, stating they would be out of town the following day prohibiting timely pick-up of the sample containers, and would continue to be out of town for an extended period.

The outreach for properties that have not provided access during this period are summarized below.

9 & 11 South Gray Street

- February 14, 2024: Stopped by properties for scheduled sampling event. Neither resident nor property contact were present to provide access.

15 South Gray Street

- GHD did not request access to property due to continued safety concerns for staff.

33 South Gray Street

- Spring 2023: GHD observed residents threatening gun violence upon each other. GHD also discussed the property with police officer who was near site conducting traffic control, who indicated that this property is frequently visited by police for several reasons and highly recommended not entering property.
- Due to safety concerns regarding potential gun violence, the property will no longer be sampled.

35 South Gray Street

- August 2, 2023: Stopped by the property to arrange VI sampling. No response.
- August 21, 2023: Stopped by the property to provide access request letter. No response. GHD left a letter at the property.
- January 31, 2024: Stopped by the property to arrange VI sampling. No response. Property appears vacant.
- February 1, 2024: Stopped by the property to arrange VI sampling. No response. Property appears vacant.
- February 9, 2024: Stopped by the property to arrange VI sampling. No response. Property appears vacant.

37 South Gray Street

- August 2, 2023: Stopped by the property to arrange VI sampling. No response.
- August 21, 2023: Contacted property owner and left voicemail message about gaining access to sample the property.
- August 22, 2023: Contacted property owner and left voicemail message about gaining access to sample the property.

- January 31, 2024: Stopped by the property to arrange VI sampling. No response.
- February 1, 2024: Stopped by the property to arrange VI sampling. No response.
- February 9, 2024: Stopped by the property to arrange VI sampling. No response.

43 South Gray Street

- February 14, 2024: Stopped by property for scheduled sampling event. Property contact did not provide access as they would not be available the following day for sample pick-up. They stated they would be out of town for an extended period and denied rescheduling the event as there was not a firm date on his return.

2.2 Residential VI Sampling

January 2023 through February 2024 VI sampling activities were conducted in accordance with the IDEM-approved work plan dated March 2, 2017. The following summarizes the general procedures associated with the vapor intrusion activities:

- At properties where access was granted and prior to sampling, a building inspection survey was completed to confirm construction type (i.e., slab-on-grade, basement, crawlspace, etc.) along with a chemical inventory to identify the presence of chemicals and practices (e.g., smoking, painting, hobbies using glues or solvents, etc.) that could impact indoor air quality. The January and August 2023 building inspection surveys for each property are included in Attachment A.
- Indoor, crawlspace, basement, sub-slab and sewer vapor samples were collected, as appropriate, over a 24-hour period and analyzed for U.S. EPA Method TO-15. At least one vapor sample was obtained from relevant levels of the structure as well as a sample from the lowest level (basement/crawlspace).
- QA/QC samples included one duplicate sample for every 10 or fewer vapor samples and one upwind ambient/outdoor air sample during each event.

The January 2023 samples were packed and shipped to Pace Analytical Services, Inc. (Pace) of Minneapolis, Minnesota following GHD's chain-of-custody protocols outlined in the Work Plan. The March and August 2023 and February 2024 samples were shipped to Pace of Mount Juliet, Tennessee following GHD's chain-of-custody protocols outlined in the Work Plan. The analytical reports from Pace are provided in Attachment B and the results are reviewed in Section 2.3.

2.3 Residential VI Sampling Results

Sampling was conducted in January 2023 at the four properties where access was provided (9 South Gray Street, 17 South Gray Street, 43 South Gray Street and 3216 Moore Avenue). As discussed in Section 2.1.1 GHD was notified after the January sampling event that the SVE was not operational during the sampling due to mechanical issues. The January 2023 sampling event therefore represents the levels of constituents (whether from a local or off-Site source) that could be expected with no mitigation measures present on the properties. In March of 2023, 3216 Moore Avenue was resampled due to elevated TCE concentrations in January 2023. Sampling results are shown on Figure 3.

Sampling was conducted in August 2023 at the five properties where access was provided (9 South Gray Street, 11 South Gray Street, 17 South Gray Street, 43 South Gray Street, and 3216 Moore Avenue). In February 2024, two of the five properties were sampled in conjunction with preferential pathway sampling (17 South Gray Street and 3216 Moore Avenue). Sampling results are shown on Figure 4.

Individual tables (Tables 1 through 5) summarize analytical results and mitigation actions completed for each respective sampled property since 2021. The summary below outlines the analytical results for sampling conducted at the east side properties during the January, March, and August 2023 and February 2024 events.

9 South Gray Street

- Vapor sampling activities were performed on January 31, 2023.
- One vapor sample was collected from the basement and one vapor sample was collected from the main level.
- Concentrations of site-specific analytes were below their respective RIAPLs. Site-specific analytical results are included in Table 1.
- Vapor sampling activities were performed on August 8, 2023.
- One vapor sample was collected from the basement and one vapor sample was collected from the main level.
- Concentrations of site-specific analytes were below their respective RIAPLs. Site-specific analytical results are included in Table 1.
- Vapor sampling activities were scheduled for February 14, 2024. However, February 2024 samples were not collected as the property contact was not present to provide access.

11 South Gray Street

- Vapor sampling activities were performed on August 8, 2023.
- One vapor sample was collected from the basement and one vapor sample was collected from the main level.
- Concentrations of site-specific analytes were below their respective RIAPLs. Site-specific analytical results are included in Table 2.
- Vapor sampling activities were scheduled for February 14, 2024. However, February 2024 samples were not collected as the property contact was not present to provide access.

17 South Gray Street

- Vapor sampling activities were performed on January 31, 2023.
- One vapor sample was collected from the basement and one vapor sample was obtained from the main level.
- TCE was detected at a concentration above its respective RIAPL in the samples collected from the main level and the basement. Chloroform also was detected at a concentration above its respective RIAPL in the sample collected from the basement. These exceedances are believed to be a result of the mitigation system going down within 24 hours prior to sampling. Concentrations for the other site-specific analytes were below their respective RIAPLs. Site-specific analytical results are included in Table 3.
- Vapor sampling activities were performed on August 11, 2023 and February 15, 2024.
- One vapor sample was collected from the basement and one vapor sample was obtained from the main level during each sampling event.
- In August 2023, benzene was detected at a concentration above its respective RIAPL in the sample collected from the main level. Chloroform was detected at a concentration above its respective RIAPL in the samples collected from the main level and the basement with the main level sample higher than the basement sample. Benzene can be generated from a number of common household products including smoking, which the tenants indicated they smoked during the residential inspection.
- In February 2023, chloroform was detected at a concentration marginally above ($1.12 \mu\text{g}/\text{m}^3$) its respective RIAPL ($1.0 \mu\text{g}/\text{m}^3$) in the sample collected from the main level. Site-specific analytical results are included in Table 3.

43 South Gray Street

- Vapor sampling activities were performed on January 31, 2023.
- One vapor sample was collected from the crawlspace, one vapor sample and one duplicate were collected from the basement, one vapor sample was collected from the sewer conduit in the basement and one sample was collected from the main level.
- TCE was detected at a concentration above the Action Level in the crawlspace, basement and main level and above the Residential Conduit Vapor Published Level (RCVPL) in the sewer conduit basement sample. This was a result of the mitigation system becoming nonoperational within 24 hours prior to sampling. Chloroform was detected at a concentration above the RCVPL in the sewer conduit basement sample. This exceedance is not surprising as the sample was collected from the drain line of the washing machine where bleach is used to clean clothes. The reported chloroform concentration in the drain line was a magnitude higher than what was reported in any of the sewer samples. These data show that the exceedance is from a background source and not from vapor intrusion. Concentrations of the other site-specific analytes were below their respective RIAPLs as summarized in Table 4.
- Due to these anomalous results, attempts were made by GHD to schedule a resampling of the property in March 2023. The owner was not able to be contacted.
- Vapor sampling activities were performed on August 11, 2023.
- One vapor sample was collected from the crawlspace, one vapor sample was collected from the basement, one vapor sample was collected from the sewer conduit in the basement, and one vapor sample and one duplicate were collected from the main level.
- TCE was detected at a concentration above the RIAPL in the samples collected from the crawlspace and main level. However, TCE concentrations were below RIAPL in the duplicate sample collected from the same location on the main level. Concentrations of the other site-specific analytes were below their respective RIAPLs as summarized in Table 4.
- Vapor sampling activities were scheduled for February 14, 2024. However, February 2024 samples were not collected as the property contact would not be present to provide access the following day. They denied rescheduling the February 2024 sampling event.

3216 Moore Street

- Vapor sampling activities were performed on January 31, 2023.
- One vapor sample was collected from the crawlspace and one vapor sample was collected from the main level.
- In January 2023, TCE was detected at a concentration above the Action Level (10X the RIAPL) in the crawlspace and main level. The exceedance was a result of the SVE mitigation system becoming nonoperational within 24 hours prior to sampling. Concentrations of the other site-specific analytes were below their respective RIAPLs as summarized in Table 5.
- Due to these exceedances, additional vapor sampling activities were performed on March 30, 2023. One vapor sample was collected from the crawlspace, and one vapor sample and one duplicate were collected from the main level.
- In March 2023, all results for TCE were below laboratory detection limits. This sampling event was conducted when the sewer mitigation system was operational, showing the effectiveness of this interim measure. Benzene was detected above the RIAPL in the main level at 4.38 $\mu\text{g}/\text{m}^3$ but was detected below the RIAPL in the corresponding field duplicate at 1.60 $\mu\text{g}/\text{m}^3$. Due to no detections higher than the RIAPL in previous sampling events, this low-level exceedance of 4.38 $\mu\text{g}/\text{m}^3$ is believed to originate from background sources. Benzene can be generated from a number of common household products including smoking, which the tenants indicated they smoked during the residential inspection. Concentrations of the other site-specific analytes were below their respective RIAPLs as summarized in Table 5.
- Vapor sampling activities were performed on August 11, 2023 and February 15, 2024.

- One vapor sample was collected from the crawlspace and one vapor sample was collected from the main level during each sampling event.
- In August 2023, benzene was detected at a concentration above the RIAPL in the main level at 6.74 $\mu\text{g}/\text{m}^3$. Due to no detections higher than the RIAPL in previous sampling events, this low-level exceedance of 6.74 $\mu\text{g}/\text{m}^3$ is believed to originate from background sources. Benzene can be generated from a number of common household products including smoking, which the tenants indicated they smoked during the residential inspection. Results for the crawlspace sample are inconclusive due to regulator malfunction. Concentrations of the other site-specific analytes were below their respective RIAPLs as summarized in Table 5.
- In February 2024, concentrations of site-specific analytes were below their respective RIAPLs as summarized in Table 5.

3. East Side Preferential Pathway Sampling Activities

3.1 East Side Preferential Pathway Sampling

Previous vapor sampling results at the east side residential properties coupled with the sewer analytical results indicated that the combined sanitary and storm sewers are a preferential pathway for vapors. Since the SVE system became operational in April 2022, site-specific analytes have been below RIAPL at the residential properties adjacent to the former CMW and PRM properties along Gray Street and Moore Avenue. Following the installation of the SVE system in April 2022, sewer vapor sampling has been performed to evaluate the status of the sewer preferential pathway.

On January 30, 2023, and February 14, 2024, sewer vapor samples were collected from MH-1, MH-2, and MH-3. GHD completed sewer sampling activities in accordance with the IDEM-approved work plan dated March 2, 2017. The following summarizes the general protocols associated with the manhole sewer sampling:

- Sewer vapor samples were collected in a 3-liter Summa canister, as appropriate, over a 15-minute period and analyzed for U.S. EPA Method TO-15.

The January 2023 sewer vapor samples were packed and shipped to Pace of Minneapolis, Minnesota following GHD's chain-of-custody protocols outlined in the Work Plan. The February 2024 sewer vapor samples were sent to Pace of Mount Juliet, Tennessee following GHD's chain-of-custody protocols outlined in the Work Plan. The analytical reports from Pace are provided in Attachment B and the results are reviewed in Section 3.2.

3.2 East Side Preferential Pathway Sampling Results

Results from the 2023 and 2024 sewer vapor sampling events of MH-1, MH-2, and MH-3 are summarized in Table 6.

During the January 2023 sampling event, only TCE was reported above IDEM's RCVPL in MH-1, MH-2, and MH-3. These detections are believed to be a result of the mitigation system going down within 24 hours prior to sampling. The highest detected TCE was reported in the sample collected from MH-3, followed by MH-1 and MH-2. This differs from prior results, where MH-2 has historically been the highest TCE detection with concentrations decreasing downgradient and upgradient from MH-2. Results from the January 2023 sewer vapor samples are shown on Figure 5.

During the February 2024 sampling event, only TCE was reported above IDEM's RCVPL in MH-1 and MH-2. The highest detected TCE concentration was reported in the sample collected from MH-2, followed by MH-1. Results from the February 2024 sewer vapor samples are shown on Figure 5.

4. Summary and Conclusions

GHD has completed the winter 2023, summer 2023, and winter 2024 east side vapor intrusion and preferential pathway sampling activities. Results from the January, March, and August 2023, and February 2024 residential indoor vapor sampling event show that the interim SVE system continues to mitigate vapors from the sewers.

The SVE system was installed and connected to manhole MH-5 to extract vapors from the sewer system to mitigate the sewer line as a preferential pathway for the migration of vapors into adjacent properties. Vapor sampling data conducted after the installation of the SVE system indicated TCE concentrations within the sewer system decreased at all manhole locations compared to results collected prior to SVE operation. Residential properties where vapor samples were obtained during the January 2023 preferential pathway sampling indicate that when the SVE system is nonoperational, TCE concentrations quickly rebound. The following sampling events during March and August 2023 and February 2024 were conducted while the mitigation system was operational and vapor sample results showed no exceedances above IDEM Action Level and TCE concentrations were generally near or below RIAPL.

Vapor samples will be collected between November 2024 and March 2025 to continue to monitor the effectiveness of the interim SVE system.

Regards,



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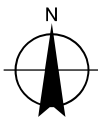
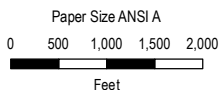
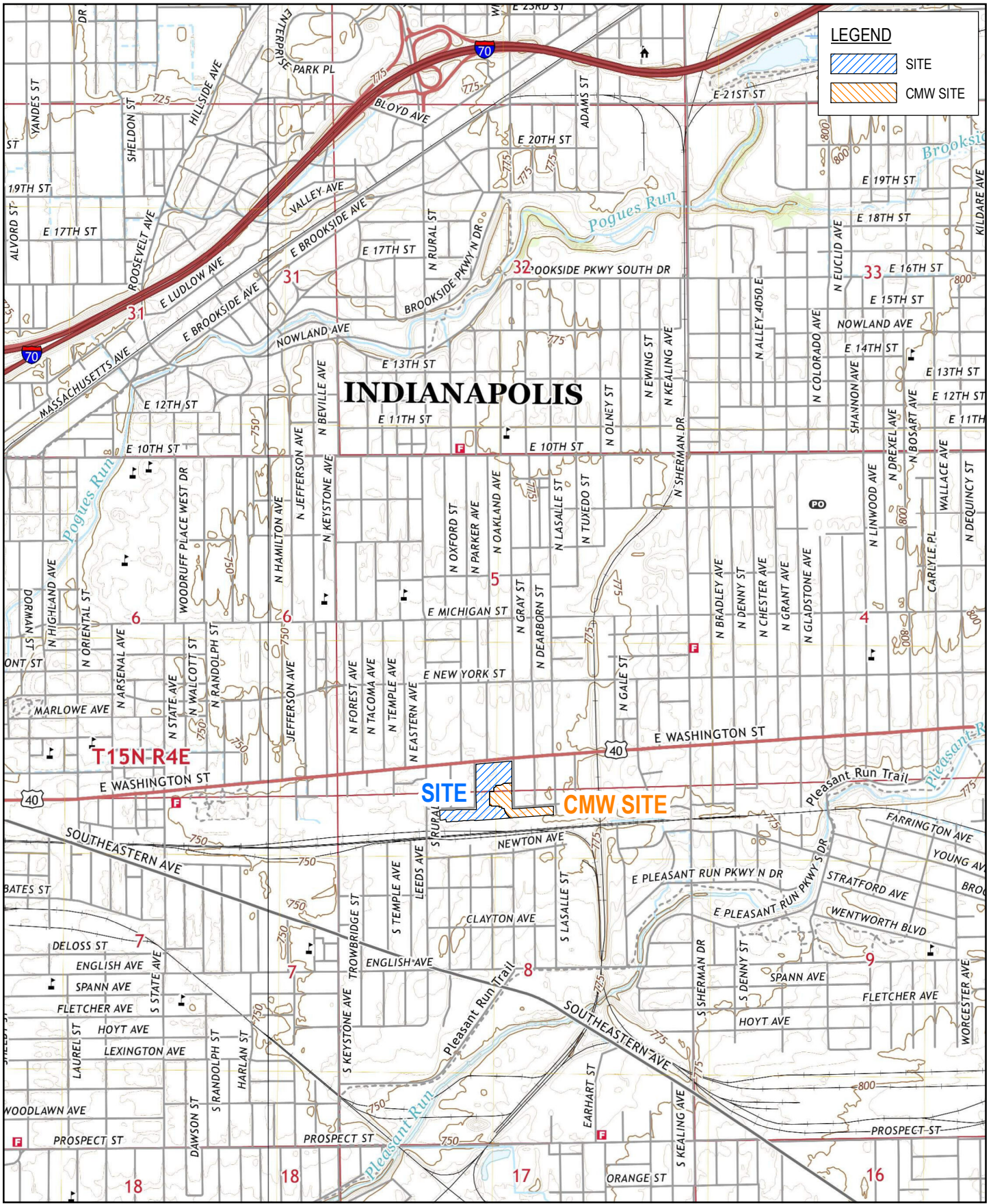


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Encl.

Copy to: Kevin Kyrias-Gann
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Walter J. Pochron

Figures



Map Projection: Transverse Mercator
 Horizontal Datum: NAD 1983 2011
 Grid: NAD 1983 2011 InGCS Johnson-Marion (ftUS)

FORMER P.R. MALLORY PROPERTIES
 INDIANAPOLIS, INDIANA

Project No. 12584838
 Revision No. -
 Date 04/24/2024

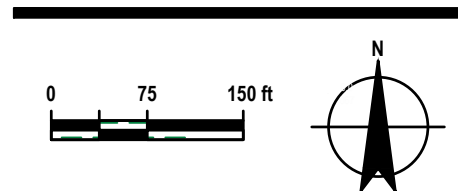
SITE LOCATION

FIGURE 1



LEGEND

- PARCEL BOUNDARY (APPROXIMATE)
- [23] FORMER BUILDING LOCATION (APPROXIMATE)
- - - SUBSURFACE UTILITY TUNNEL (SURVEYED)
- FORMER P.R. MALLORY SITES VRP #6170902
- CMW SITE - BPI VRP #6000101 AND CMW SCP #000000396

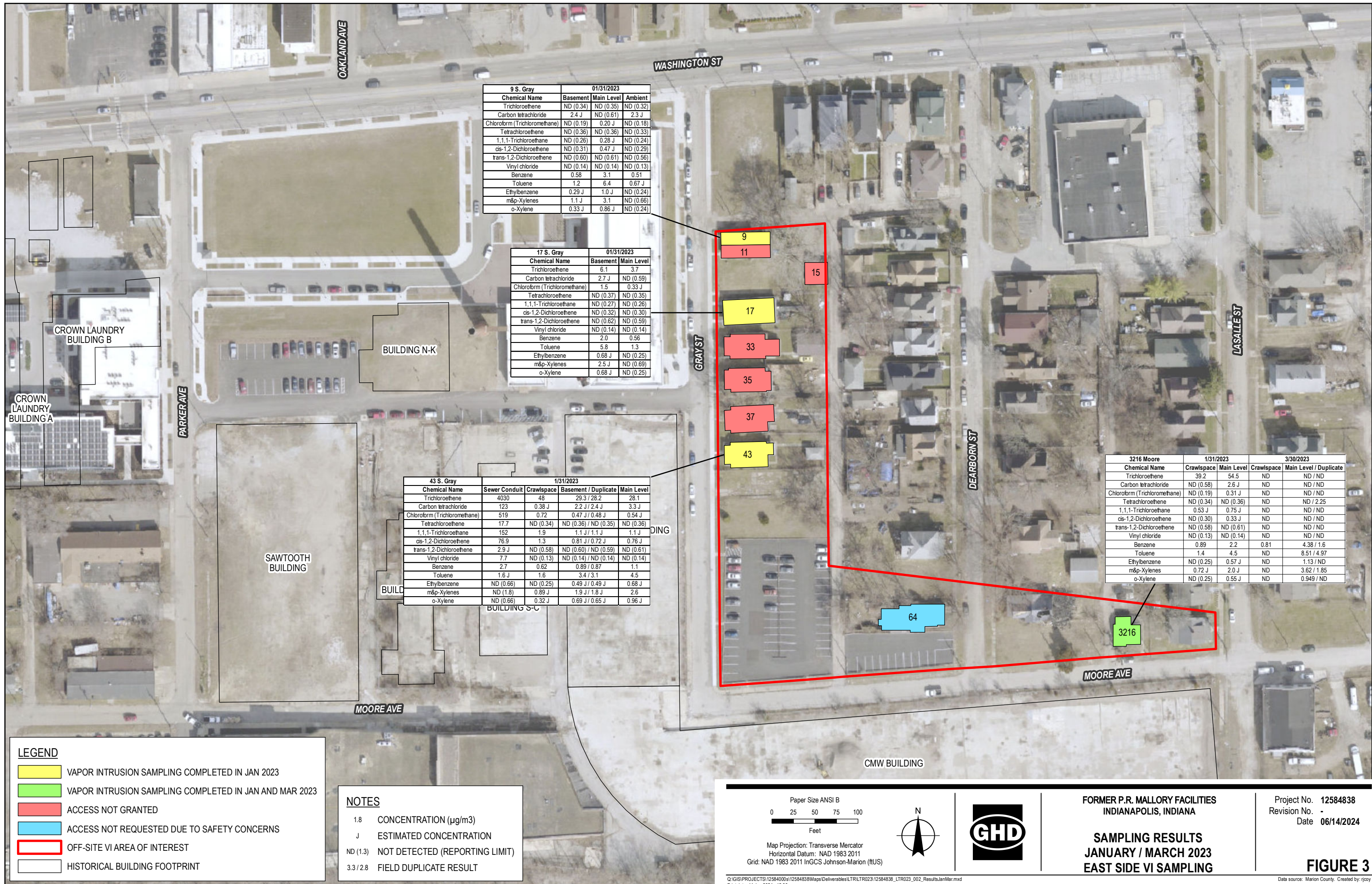


FORMER P.R. MALLORY PROPERTIES
INDIANAPOLIS, INDIANA

Project No. 12584838
Date June 2024

SITE PLAN

FIGURE 2



9 S. Gray		01/31/2023		
Chemical Name	Basement	Main Level	Ambient	
Trichloroethene	ND (0.34)	ND (0.35)	ND (0.32)	
Carbon tetrachloride	2.4 J	ND (0.61)	2.3 J	
Chloroform (Trichloromethane)	ND (0.19)	0.20 J	ND (0.18)	
Tetrachloroethene	ND (0.36)	ND (0.36)	ND (0.33)	
1,1,1-Trichloroethane	ND (0.26)	0.28 J	ND (0.24)	
cis-1,2-Dichloroethene	ND (0.31)	0.47 J	ND (0.29)	
trans-1,2-Dichloroethene	ND (0.60)	ND (0.61)	ND (0.56)	
Vinyl chloride	ND (0.14)	ND (0.14)	ND (0.13)	
Benzene	0.58	3.1	0.51	
Toluene	1.2	6.4	0.67 J	
Ethylbenzene	0.29 J	1.0 J	ND (0.24)	
m&p-Xylenes	1.1 J	3.1	ND (0.66)	
o-Xylene	0.33 J	0.86 J	ND (0.24)	

17 S. Gray		01/31/2023		
Chemical Name	Basement	Main Level		
Trichloroethene	6.1	3.7		
Carbon tetrachloride	2.7 J	ND (0.59)		
Chloroform (Trichloromethane)	1.5	0.33 J		
Tetrachloroethene	ND (0.37)	ND (0.35)		
1,1,1-Trichloroethane	ND (0.27)	ND (0.26)		
cis-1,2-Dichloroethene	ND (0.32)	ND (0.30)		
trans-1,2-Dichloroethene	ND (0.62)	ND (0.59)		
Vinyl chloride	ND (0.14)	ND (0.14)		
Benzene	2.0	0.56		
Toluene	5.8	1.3		
Ethylbenzene	0.68 J	ND (0.25)		
m&p-Xylenes	2.5 J	ND (0.69)		
o-Xylene	0.68 J	ND (0.25)		

43 S. Gray		1/31/2023			
Chemical Name	Sewer Conduit	Crawlspace	Basement / Duplicate	Main Level	
Trichloroethene	4030	46	29.3 / 28.2	28.1	
Carbon tetrachloride	123	0.38 J	2.2 J / 2.4 J	3.3 J	
Chloroform (Trichloromethane)	519	0.72	0.47 J / 0.48 J	0.54 J	
Tetrachloroethene	17.7	ND (0.34)	ND (0.36) / ND (0.35)	ND (0.36)	
1,1,1-Trichloroethane	152	1.9	1.1 J / 1.1 J	1.1 J	
cis-1,2-Dichloroethene	76.9	1.3	0.81 J / 0.72 J	0.76 J	
trans-1,2-Dichloroethene	2.9 J	ND (0.58)	ND (0.60) / ND (0.59)	ND (0.61)	
Vinyl chloride	7.7	ND (0.13)	ND (0.14) / ND (0.14)	ND (0.14)	
Benzene	2.7	0.62	0.89 / 0.87	1.1	
Toluene	1.6 J	1.6	3.4 / 3.1	4.5	
Ethylbenzene	ND (0.66)	ND (0.25)	0.49 J / 0.49 J	0.68 J	
m&p-Xylenes	ND (1.8)	0.89 J	1.9 J / 1.8 J	2.6	
o-Xylene	ND (0.66)	0.32 J	0.69 J / 0.65 J	0.96 J	

3216 Moore		1/31/2023		3/30/2023	
Chemical Name	Crawlspace	Main Level	Crawlspace	Main Level / Duplicate	
Trichloroethene	39.2	54.5	ND	ND / ND	
Carbon tetrachloride	ND (0.58)	2.6 J	ND	ND / ND	
Chloroform (Trichloromethane)	ND (0.19)	0.31 J	ND	ND / ND	
Tetrachloroethene	ND (0.34)	ND (0.36)	ND	ND / 2.25	
1,1,1-Trichloroethane	0.53 J	0.75 J	ND	ND / ND	
cis-1,2-Dichloroethene	ND (0.30)	0.33 J	ND	ND / ND	
trans-1,2-Dichloroethene	ND (0.58)	ND (0.61)	ND	ND / ND	
Vinyl chloride	ND (0.13)	ND (0.14)	ND	ND / ND	
Benzene	0.89	2.2	0.81	4.38 / 1.6	
Toluene	1.4	4.5	ND	8.51 / 4.97	
Ethylbenzene	ND (0.25)	0.57 J	ND	1.13 / ND	
m&p-Xylenes	0.72 J	2.0 J	ND	3.62 / 1.85	
o-Xylene	ND (0.25)	0.55 J	ND	0.949 / ND	

LEGEND

- VAPOR INTRUSION SAMPLING COMPLETED IN JAN 2023
- VAPOR INTRUSION SAMPLING COMPLETED IN JAN AND MAR 2023
- ACCESS NOT GRANTED
- ACCESS NOT REQUESTED DUE TO SAFETY CONCERNS
- OFF-SITE VI AREA OF INTEREST
- HISTORICAL BUILDING FOOTPRINT

NOTES

- 1.8 CONCENTRATION (µg/m3)
- J ESTIMATED CONCENTRATION
- ND (1.3) NOT DETECTED (REPORTING LIMIT)
- 3.3 / 2.8 FIELD DUPLICATE RESULT

Paper Size ANSI B

Feet

Map Projection: Transverse Mercator
Horizontal Datum: NAD 1983 2011
Grid: NAD 1983 2011 InGCS Johnson-Marion (ftUS)

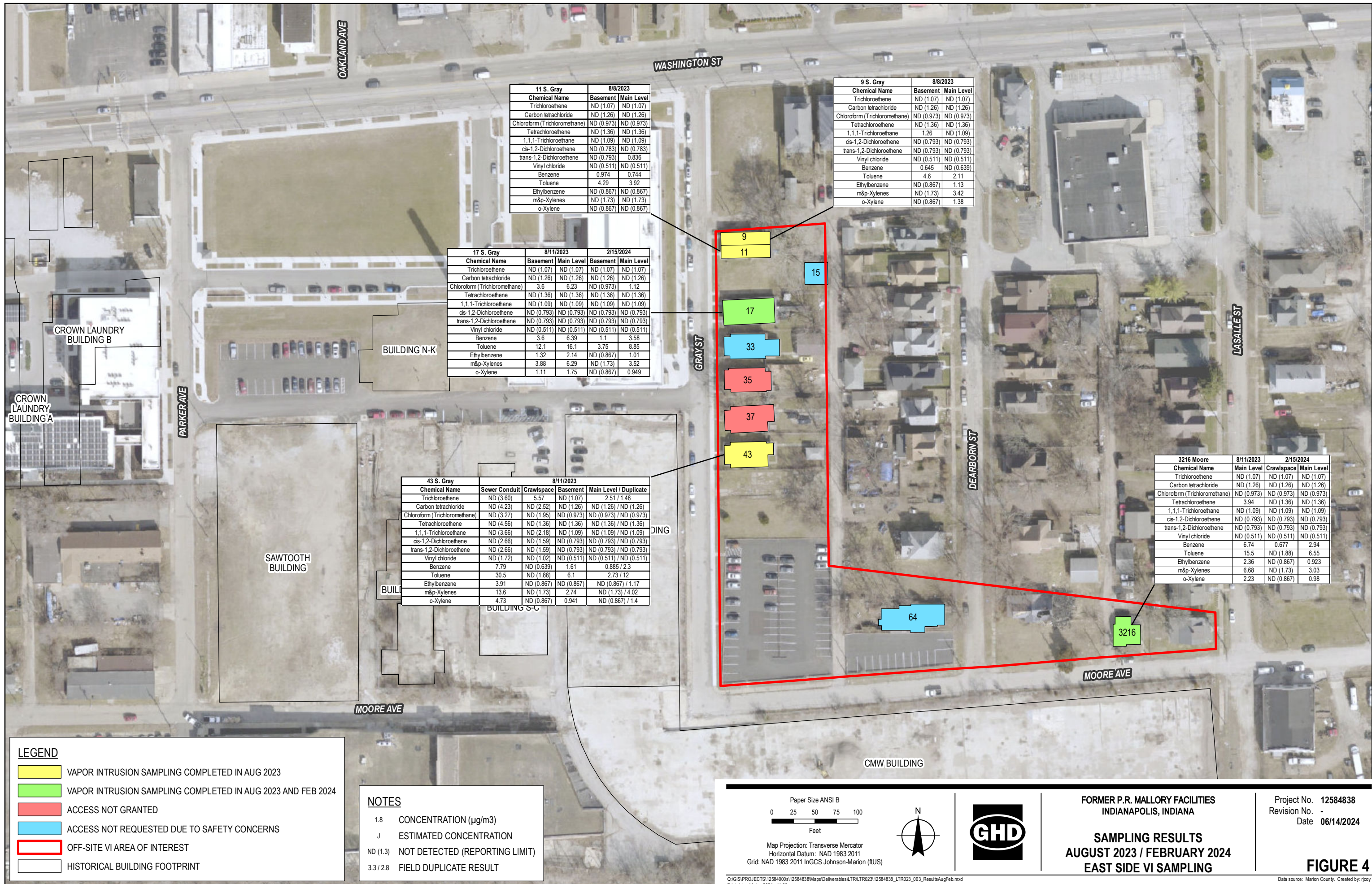
FORMER P.R. MALLORY FACILITIES
INDIANAPOLIS, INDIANA

SAMPLING RESULTS
JANUARY / MARCH 2023
EAST SIDE VI SAMPLING

Project No. 12584838
Revision No. -
Date 06/14/2024

FIGURE 3

Q:\GIS\PROJECTS\12584000\12584838\Maps\Deliverables\LTR\LTR023\12584838_LTR023_002_Results.lanMar.mxd
Print date: 14 Jun 2024 - 12:00



11 S. Gray		8/8/2023	
Chemical Name	Basement	Main Level	
Trichloroethene	ND (1.07)	ND (1.07)	
Carbon tetrachloride	ND (1.26)	ND (1.26)	
Chloroform (Trichloromethane)	ND (0.973)	ND (0.973)	
Tetrachloroethene	ND (1.36)	ND (1.36)	
1,1,1-Trichloroethane	ND (1.09)	ND (1.09)	
cis-1,2-Dichloroethene	ND (0.783)	ND (0.783)	
trans-1,2-Dichloroethene	ND (0.793)	0.836	
Vinyl chloride	ND (0.511)	ND (0.511)	
Benzene	0.974	0.744	
Toluene	4.29	3.92	
Ethylbenzene	ND (0.867)	ND (0.867)	
m&p-Xylenes	ND (1.73)	ND (1.73)	
o-Xylene	ND (0.867)	ND (0.867)	

9 S. Gray		8/8/2023	
Chemical Name	Basement	Main Level	
Trichloroethene	ND (1.07)	ND (1.07)	
Carbon tetrachloride	ND (1.26)	ND (1.26)	
Chloroform (Trichloromethane)	ND (0.973)	ND (0.973)	
Tetrachloroethene	ND (1.36)	ND (1.36)	
1,1,1-Trichloroethane	1.26	ND (1.09)	
cis-1,2-Dichloroethene	ND (0.793)	ND (0.793)	
trans-1,2-Dichloroethene	ND (0.793)	ND (0.793)	
Vinyl chloride	ND (0.511)	ND (0.511)	
Benzene	0.645	ND (0.639)	
Toluene	4.6	2.11	
Ethylbenzene	ND (0.867)	1.13	
m&p-Xylenes	ND (1.73)	3.42	
o-Xylene	ND (0.867)	1.38	

17 S. Gray		8/11/2023		2/15/2024	
Chemical Name	Basement	Main Level	Basement	Main Level	
Trichloroethene	ND (1.07)	ND (1.07)	ND (1.07)	ND (1.07)	
Carbon tetrachloride	ND (1.26)	ND (1.26)	ND (1.26)	ND (1.26)	
Chloroform (Trichloromethane)	3.6	6.23	ND (0.973)	1.12	
Tetrachloroethene	ND (1.36)	ND (1.36)	ND (1.36)	ND (1.36)	
1,1,1-Trichloroethane	ND (1.09)	ND (1.09)	ND (1.09)	ND (1.09)	
cis-1,2-Dichloroethene	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)	
trans-1,2-Dichloroethene	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)	
Vinyl chloride	ND (0.511)	ND (0.511)	ND (0.511)	ND (0.511)	
Benzene	3.6	6.39	1.1	3.58	
Toluene	12.1	16.1	3.75	8.85	
Ethylbenzene	1.32	2.14	ND (0.867)	1.01	
m&p-Xylenes	3.88	6.29	ND (1.73)	3.52	
o-Xylene	1.11	1.75	ND (0.867)	0.949	

43 S. Gray		8/11/2023			
Chemical Name	Sewer Conduit	Crawlspace	Basement	Main Level / Duplicate	
Trichloroethene	ND (3.60)	5.57	ND (1.07)	2.51 / 1.48	
Carbon tetrachloride	ND (4.23)	ND (2.52)	ND (1.26)	ND (1.26) / ND (1.26)	
Chloroform (Trichloromethane)	ND (3.27)	ND (1.95)	ND (0.973)	ND (0.973) / ND (0.973)	
Tetrachloroethene	ND (4.56)	ND (1.36)	ND (1.36)	ND (1.36) / ND (1.36)	
1,1,1-Trichloroethane	ND (3.66)	ND (2.18)	ND (1.09)	ND (1.09) / ND (1.09)	
cis-1,2-Dichloroethene	ND (2.66)	ND (1.59)	ND (0.793)	ND (0.793) / ND (0.793)	
trans-1,2-Dichloroethene	ND (2.66)	ND (1.59)	ND (0.793)	ND (0.793) / ND (0.793)	
Vinyl chloride	ND (1.72)	ND (1.02)	ND (0.511)	ND (0.511) / ND (0.511)	
Benzene	7.79	ND (0.639)	1.61	0.885 / 2.3	
Toluene	30.5	ND (1.88)	6.1	2.73 / 12	
Ethylbenzene	3.91	ND (0.867)	ND (0.867)	ND (0.867) / 1.17	
m&p-Xylenes	13.6	ND (1.73)	2.74	ND (1.73) / 4.02	
o-Xylene	4.73	ND (0.867)	0.941	ND (0.867) / 1.4	

3216 Moore		8/11/2023		2/15/2024	
Chemical Name	Main Level	Crawlspace	Main Level		
Trichloroethene	ND (1.07)	ND (1.07)	ND (1.07)		
Carbon tetrachloride	ND (1.26)	ND (1.26)	ND (1.26)		
Chloroform (Trichloromethane)	ND (0.973)	ND (0.973)	ND (0.973)		
Tetrachloroethene	3.94	ND (1.36)	ND (1.36)		
1,1,1-Trichloroethane	ND (1.09)	ND (1.09)	ND (1.09)		
cis-1,2-Dichloroethene	ND (0.793)	ND (0.793)	ND (0.793)		
trans-1,2-Dichloroethene	ND (0.793)	ND (0.793)	ND (0.793)		
Vinyl chloride	ND (0.511)	ND (0.511)	ND (0.511)		
Benzene	6.74	0.677	2.94		
Toluene	15.5	ND (1.88)	6.55		
Ethylbenzene	2.36	ND (0.867)	0.923		
m&p-Xylenes	6.68	ND (1.73)	3.03		
o-Xylene	2.23	ND (0.867)	0.98		

LEGEND

- VAPOR INTRUSION SAMPLING COMPLETED IN AUG 2023
- VAPOR INTRUSION SAMPLING COMPLETED IN AUG 2023 AND FEB 2024
- ACCESS NOT GRANTED
- ACCESS NOT REQUESTED DUE TO SAFETY CONCERNS
- OFF-SITE VI AREA OF INTEREST
- HISTORICAL BUILDING FOOTPRINT

NOTES

- 1.8 CONCENTRATION ($\mu\text{g}/\text{m}^3$)
- J ESTIMATED CONCENTRATION
- ND (1.3) NOT DETECTED (REPORTING LIMIT)
- 3.3/2.8 FIELD DUPLICATE RESULT

Paper Size ANSI B

0 25 50 75 100
Feet

Map Projection: Transverse Mercator
Horizontal Datum: NAD 1983 2011
Grid: NAD 1983 2011 InGCS Johnson-Marion (ftUS)



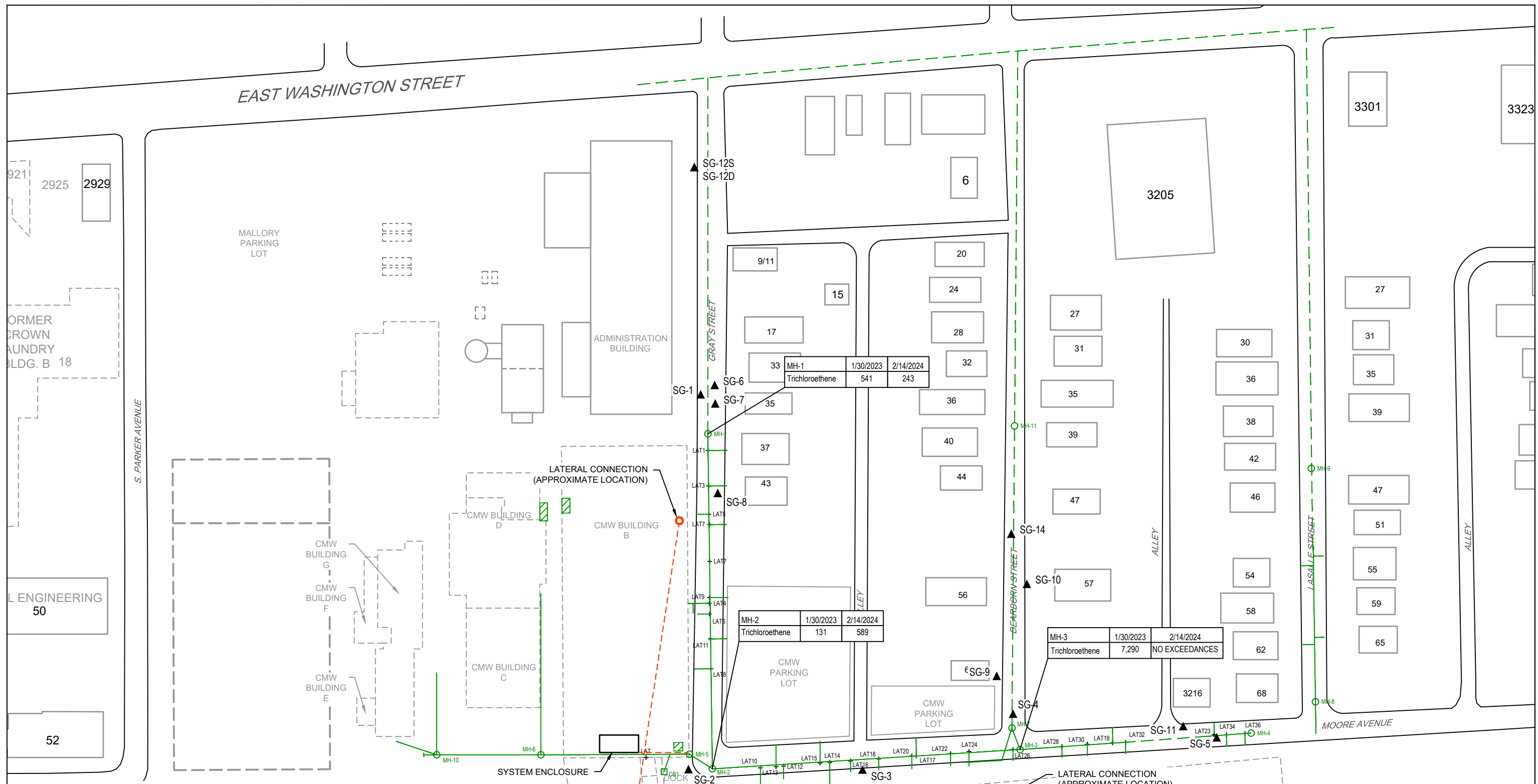
FORMER P.R. MALLORY FACILITIES
INDIANAPOLIS, INDIANA

SAMPLING RESULTS
AUGUST 2023 / FEBRUARY 2024
EAST SIDE VI SAMPLING

Project No. 12584838
Revision No. -
Date 06/14/2024

FIGURE 4

Q:\GIS\PROJECTS\12584000\12584838\Maps\Deliverables\LTR\LTR023\12584838_LTR023_003_ResultsAugFeb.mxd
Print date: 14 Jun 2024 - 11:39
Data source: Marion County. Created by: rjpy



Chemical Name (ug/m ³)	RESIDENTIAL CONDUIT VAPOR PUBLISHED LEVEL (RCVPL)
Trichloroethene	70

LEGEND

- SEWER AND LATERALS ACCESSED BY REMOTE INSPECTION
- - - INFERRED SEWER
- OPEN VAULTS/PITS
- FORMER BUILDING LOCATION (APPROXIMATE)
- BUILDING LOCATION (APPROXIMATE)
- ▲ SOIL GAS PROBE LOCATION

Parameter	Sample Date	Sample Result (ug/m ³)
MH-2 Trichloroethene	2/14/2024	589

Parameter	Sample Date	Sample Result (ug/m ³)
MH-1 Trichloroethene	1/30/2023	541
	2/14/2024	243

Parameter	Sample Date	Sample Result (ug/m ³)
MH-2 Trichloroethene	1/30/2023	131
	2/14/2024	589

Parameter	Sample Date	Sample Result (ug/m ³)
MH-3 Trichloroethene	1/30/2023	7,290
	2/14/2024	NO EXCEEDANCES

NOTE: INTERIM SEWER VAPOR EXTRACTION SYSTEM WAS NONOPERATIONAL DURING JANUARY 2023 EVENT

0 50 100 ft

Coordinate System:
INDIANA EAST STATE PLANE
NAD83 FEET



FORMER P.R. MALLORY PROPERTIES
INDIANAPOLIS, INDIANA

**SEWER GAS EXCEEDANCES
IN MANHOLES**

Project No. 12584838
Date June 2024

FIGURE 5

Filename: N:\US\Indianapolis\Projects\56312584838\Digital_Design\ACAD\Figures\LR02312584838-GHD-00-00-LTR-EN-D102_DE-023.dwg
Plot Date: 14 June 2024 3:44 PM

Tables

TABLE 1
Former P.R. Mallory Facility

East Side Vapor Intrusion Sampling
9 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
9 S. Gray	IA-042921-TP-021	Basement	4/29/2021	3.6	ND (2.0)	ND (0.78)	ND (1.1)	2.3	ND (1.3)	ND (1.3)	ND (0.41)	2.2	3.3	1.1 J	3.7	1.0 J
9 S. Gray	IA-042921-TP-022	Main level	4/29/2021	2.2	ND (2.1)	ND (0.81)	ND (1.1)	ND (1.8)	ND (1.3)	ND (1.3)	ND (0.43)	6.4	5.0	0.71 J	2.0 J	0.65 J
Ambient Air	AA-042921-TP-023	Parking Lot Gray/Moore	4/29/2021	ND (0.88)	ND (2.1)	ND (0.80)	ND (1.1)	ND (1.8)	ND (1.3)	0.28 J	ND (0.42)	0.40 J	1.1 J	ND (1.4)	ND (2.8)	ND (1.4)
Interim Mitigation			6/07/2021	Air Exchange												
9 S. Gray	IA-071621-TP-052	Basement	7/16/2021	6.4	0.76 J	0.69 J	0.54 J	4.5	ND (1.2)	ND (1.2)	ND (0.40)	1.4	14.4 J	5.3	17.1	5.1
9 S. Gray	IA-071621-TP-053	Basement Duplicate	7/16/2021	6.5	0.77 J	0.50 J	ND (1.1)	4.6	ND (1.2)	0.27 J	ND (0.40)	1.3	8.5 J	4.8	15.6	4.4
9 S. Gray	IA-071621-TP-054	Main level	7/16/2021	2.4	0.56 J	0.60 J	0.48 J	0.46 J	ND (1.2)	ND (1.2)	ND (0.40)	2.4	13.6	2.0	5.5	1.8
9 S. Gray	IA-012122-TP-097	Basement	1/21/2022	ND (0.29)	ND (0.42)	ND (0.27)	ND (0.44)	ND (0.28)	ND (0.29)	ND (0.25)	ND (0.13)	0.84	1.6	1.2 J	2.6 J	0.82 J
9 S. Gray	IA-012122-TP-098	Main level	1/21/2022	ND (0.29)	ND (0.41)	ND (0.27)	ND (0.43)	0.31 J	ND (0.28)	ND (0.25)	ND (0.13)	2.0	2.7	1.3 J	2.9 J	0.91 J
Interim Mitigation			4/20/2022	SMA Installed Sewer Vapor Extraction												
9 S. Gray	IA-081222-TP-030	Basement	8/12/2022	ND (0.30)	0.46 J	0.29 J	ND (0.45)	1.3 J	ND (0.30)	ND (0.26)	ND (0.13)	0.98	3.4	0.76 J	2.6 J	0.82 J
9 S. Gray	IA-081222-TP-029	Main Level	8/12/2022	ND (0.29)	ND (0.42)	0.42 J	3.5	ND (0.28)	ND (0.29)	ND (0.25)	ND (0.13)	2.6	6.2	0.83 J	2.7	0.77 J
9 S. Gray	IA-013123-TP-009	Main Level	1/31/2023	ND (0.35)	ND (0.61)	0.20 J	ND (0.36)	0.28 J	0.47 J	ND (0.61)	ND (0.14)	3.1	6.4	1.0 J	3.1	0.86 J
9 S. Gray	IA-013123-TP-010	Basement	1/31/2023	ND (0.34)	2.4 J	ND (0.19)	ND (0.36)	ND (0.26)	ND (0.31)	ND (0.60)	ND (0.14)	0.58	1.2	0.29 J	1.1 J	0.33 J
Ambient Air	AA-013123-TP-003	Telephone Pole N of 9 S Gray	1/31/2023	ND (0.32)	2.3 J	ND (0.18)	ND (0.33)	ND (0.24)	ND (0.29)	ND (0.56)	ND (0.13)	0.51	0.67 J	ND (0.24)	ND (0.66)	ND (0.24)
9 S. Gray	IA-080823-TP-001	Main level	8/8/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	ND (0.639)	2.11	1.13	3.42	1.38
9 S. Gray	IA-080823-TP-002	Basement	8/8/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	1.26	ND (0.793)	ND (0.793)	ND (0.511)	0.645	4.60	ND (0.867)	ND (1.73)	ND (0.867)

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2
 IDEM = Indiana Department of Environmental Management
 R2 = Risk-Based Closure Guide, July 8, 2022
 RIAPL = Residential Indoor Air Published Level
 ND = Not detected at the associated reporting limit
 J = Estimated concentration
 ug/m3 = micrograms per cubic meters

TABLE 2
Former P.R. Mallory Facility

East Side Vapor Intrusion Sampling
11 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
11 S. Gray	IA-042921-TP-025	Basement	4/29/2021	6.4	ND (2.1)	ND (0.80)	ND (1.1)	0.62 J	ND (1.3)	0.45 J	ND (0.42)	2.8	2.4	ND (1.4)	1.3 J	0.44 J
11 S. Gray	IA-042921-TP-026	Basement Duplicate	4/29/2021	5.9	0.57 J	0.28 J	ND (1.0)	0.55 J	ND (1.2)	ND (1.2)	ND (0.39)	2.5	2.8	ND (1.3)	1.3 J	0.47 J
11 S. Gray	IA-042921-TP-024	Main level	4/29/2021	4.1	0.52 J	ND (0.80)	ND (1.1)	0.30 J	ND (1.3)	ND (1.3)	ND (0.42)	1.5	2.6	ND (1.4)	1.2 J	ND (1.4)
Interim Mitigation			6/7/2021	Air Exchange												
11 S. Gray	IA-072021-TP-055	Basement	7/20/2021	ND (0.88)	0.55 J	0.89	ND (1.1)	0.66 J	ND (1.3)	ND (1.3)	ND (0.42)	1.7	6.5	1.5	4.2	1.5
11 S. Gray	IA-072021-TP-056	Main level	7/20/2021	ND (0.83)	0.61 J	3.7	ND (1.0)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	8.1	18.0	2.7	9.6	2.4
11 S. Gray	IA-012122-TP-100	Basement	1/21/2022	ND (0.81)	ND (1.9)	0.33 J	ND (1.0)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.39)	3.7	5.7	1.5 J	3.6 J	1.0 J
11 S. Gray	IA-012122-TP-101	Basement Duplicate	1/21/2022	ND (0.79)	0.41 J	ND (0.71)	ND (0.99)	ND (1.6)	ND (1.2)	ND (1.2)	ND (0.37)	0.78	1.1	1.1 J	2.4 J	0.76 J
11 S. Gray	IA-012122-TP-102	Main level	1/21/2022	ND (0.79)	ND (1.8)	ND (0.71)	ND (0.99)	ND (1.6)	ND (1.2)	ND (1.2)	ND (0.37)	0.84	1.1	1.2 J	2.4 J	0.77 J
11 S. Gray	IA-080823-TP-003	Main level	8/8/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.783)	0.836	ND (0.511)	0.744	3.92	ND (0.867)	ND (1.73)	ND (0.867)
11 S. Gray	IA-080823-TP-004	Basement	8/8/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.783)	ND (0.793)	ND (0.511)	0.974	4.29	ND (0.867)	ND (1.73)	ND (0.867)

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2
 IDEM = Indiana Department of Environmental Management
 R2 = Risk-Based Closure Guide, July 8, 2022
 RIAPL = Residential Indoor Air Published Level
 ND = Not detected at the associated reporting limit
 J = Estimated concentration
 ug/m3 = micrograms per cubic meters

TABLE 3
Former P.R. Mallory Facility

East Side Vapor Intrusion Sampling
17 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
17 S. Gray	IA-040621-TP-001	Basement	4/6/2021	21.1	ND (1.9)	2.9	0.47 J	1.0 J	0.56 J	ND (1.2)	ND (0.39)	2.7	12.4	0.86 J	2.8	0.75 J
17 S. Gray	IA-040621-TP-002	Main level	4/6/2021	94.1	2.6	7.3	2.3	4.6	3.6	ND (1.3)	ND (0.42)	10.0	26.5	3.0	9.8	2.1
Interim Mitigation			5/4/2021	Air Exchange												
Interim Mitigation			5/14/2021	Four Sanuvox Units Placed in Residence												
17 S. Gray	IA-052121-TP-041	Basement	5/21/2021	1.7	0.64 J	5.2	ND (1.1)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	4.3	16.6	1.2 J	3.7	1.6
17 S. Gray	IA-052121-TP-039	Main level	5/21/2021	1.8	0.69 J	8.4	ND (1.1)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	6.3	17.8	1.8	5.4	1.9
17 S. Gray	IA-052121-TP-040	Main level Duplicate	5/21/2021	1.6 J	ND (4.3)	7.9	ND (2.3)	ND (3.7)	ND (2.7)	ND (2.7)	ND (0.87)	5.6	15.6	1.8 J	4.8 J	2.7 J
17 S. Gray	IA-011322-TP-089	Basement	1/13/2022	36.4	0.82 J	1.0	0.46 J	1.7	0.84 J	ND (0.26)	ND (0.13)	2.0	6.4	1.3 J	3.4	1.5
17 S. Gray	IA-011322-TP-090	Main level	1/13/2022	76.9	3.1	2.7	1.6	3.3	2.8	ND (0.23)	ND (0.12)	5.1	18.2	1.7	4.7	1.6
17 S. Gray	IA-011322-TP-091	Main level Duplicate	1/13/2022	61.8	2.3	2.8	0.61 J	2.8	1.8	ND (0.23)	ND (0.12)	2.6	7.0	1.1 J	2.8	1.0 J
Interim Mitigation			4/20/2022	SMA Installed Sewer Vapor Extraction												
17 S. Gray	IA-062222-TP-011	Basement	6/22/2022	0.49	0.51	2.6	0.21	ND (0.16)	ND (0.12)	ND (0.12)	ND (0.08)	3.5	11.0	1.0	3.3	0.99
17 S. Gray	IA-062222-TP-012	Main level	6/22/2022	0.63	0.52	2.7	0.27	ND (0.16)	ND (0.12)	ND (0.12)	ND (0.08)	5.1	11.0	1.5	4.3	1.2
17 S. Gray	IA-081222-TP-027	Basement	8/12/2022	0.50 J	0.63 J	4.9	3.3	ND (0.29)	ND (0.30)	ND (0.26)	ND (0.13)	4.6	16.1	1.6	5.7	1.8
17 S. Gray	IA-081222-TP-028	Main level	8/12/2022	0.34 J	ND (0.43)	6.2	ND (0.45)	ND (0.29)	ND (0.30)	ND (0.26)	ND (0.13)	7.9	16.8	1.7	6.5	2.2
17 S. Gray	IA-013123-TP-001	Basement	1/31/2023	6.1^	2.7 J	1.5^	ND (0.37)	ND (0.27)	ND (0.32)	ND (0.62)	ND (0.14)	2.0	5.8	0.68 J	2.5 J	0.68 J
17 S. Gray	IA-013123-TP-002	Main level	1/31/2023	3.7^	ND (0.59)	0.33 J	ND (0.35)	ND (0.26)	ND (0.30)	ND (0.59)	ND (0.14)	0.56	1.3	ND (0.25)	ND (0.69)	ND (0.25)
17 S. Gray	IA-081123-TP-010	Main level	8/11/2023	ND (1.07)	ND (1.26)	6.23	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	6.39	16.1	2.14	6.29	1.75
17 S. Gray	IA-081123-TP-011	Basement	8/11/2023	ND (1.07)	ND (1.26)	3.60	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	3.58	12.1	1.32	3.88	1.11
17 S. Gray	IA-02142024-AH-002	Main level	2/15/2024	ND (1.07)	ND (1.26)	1.12	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	3.58	8.85	1.01	3.52	0.949
17 S. Gray	IA-02142024-AH-003	Basement	2/15/2024	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	1.07	3.75	ND (0.867)	ND (1.73)	ND (0.867)

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2
IDEM = Indiana Department of Environmental Management
R2 = Risk-Based Closure Guide, July 8, 2022
RIAPL = Residential Indoor Air Published Level

ND = Not detected at the associated reporting limit
J = Estimated concentration
ug/m3 = micrograms per cubic meters
^Interim SVE system was nonoperational during January 2023 sampling event

TABLE 4
Former P.R. Mallory Facility

East Side Vapor Intrusion Sampling
43 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Conduit Vapor Published Levels*				70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
43 S. Gray	GU-040721-TP-005	Subslab**	4/7/2021	2.1	0.77 J	ND (0.75)	1.2	9.1	ND (1.2)	ND (1.2)	ND (0.40)	ND (0.49)	0.92 J	ND (1.3)	ND (2.7)	ND (1.3)
43 S. Gray	GU-040721-TP-006	Subslab**	4/7/2021	2.1	0.71 J	ND (0.75)	1.3	9.2	ND (1.2)	ND (1.2)	ND (0.40)	ND (0.49)	ND (1.2)	ND (1.3)	ND (2.7)	ND (1.3)
43 S. Gray	AC-040721-TP-007	Crawlspace	4/7/2021	8.7	ND (1.9)	2.9	ND (1.0)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	0.64	2.2	ND (1.3)	1.5 J	0.52 J
43 S. Gray	IA-040721-TP-008	Basement	4/7/2021	4.2	ND (1.9)	2.4	ND (1.0)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	0.83	4.8	1.1 J	4.2	1.6
43 S. Gray	IA-040721-TP-010	Main level	4/7/2021	3.1	ND (1.8)	4.4	ND (0.97)	ND (1.6)	ND (1.1)	ND (1.1)	ND (0.37)	2.4	19.9	4.4	16.6	5.8
43 S. Gray	IA-040721-TP-011	Main level Duplicate	4/7/2021	3.4	ND (2.0)	4.8	ND (1.1)	ND (1.7)	ND (1.2)	ND (1.2)	ND (0.40)	2.7	22.2	4.8	18.3	6.4
Interim Mitigation			6/10/2021	Air Exchange												
43 S. Gray	GU-071621-TP-047	Subslab**	7/16/2021	0.75 J	1.1 J	0.34 J	2.8	16.5	ND (1.5)	ND (1.5)	ND (0.48)	ND (0.59)	1.4	1.6 J	2.3 J	0.80 J
43 S. Gray	AC-071621-TP-049	Crawlspace	7/16/2021	19.1	0.98 J	1.7	1.3	0.94 J	0.41 J	ND (1.2)	ND (0.40)	0.46 J	3.0	1.2 J	2.3 J	0.89 J
43 S. Gray	IA-071621-TP-048	Basement	7/16/2021	20.2	1.0 J	1.6	1.2	1.1 J	0.44 J	ND (1.3)	ND (0.41)	0.84	4.0	1.4 J	2.8 J	1.0 J
43 S. Gray	IA-071621-TP-050	Main level	7/16/2021	0.88	0.53 J	0.41 J	ND (1.1)	ND (1.8)	ND (1.3)	ND (1.3)	ND (0.41)	1.0	4.4	1.5 J	3.4	1.3 J
Interim Mitigation			8/11/2021	Three Sanuvox Units Placed in Residence												
43 S. Gray	GU-090221-TP-066	Subslab**	9/2/2021	0.53 J	0.88 J	ND	ND	14.8	ND (1.2)	ND (1.2)	ND (0.40)	ND (0.49)	0.59 J	ND (1.3)	ND (2.7)	ND (1.3)
43 S. Gray	AC-090221-TP-069	Crawlspace	9/2/2021	21.5	0.99 J	2.3	0.53 J	1.2 J	0.68 J	ND (1.2)	ND (0.40)	0.48 J	2.6	ND (1.3)	1.3 J	0.55 J
43 S. Gray	IA-090221-TP-067	Basement	9/2/2021	16.5	0.82 J	1.3	ND	0.92 J	0.51 J	ND (1.3)	ND (0.42)	0.44 J	3.0	ND (1.4)	1.3 J	0.53 J
43 S. Gray	IA-090221-TP-068	Basement Duplicate	9/2/2021	17.2	0.82 J	1.4	ND	1.0 J	0.57 J	ND (1.2)	ND (0.40)	0.46 J	3.2	ND (1.3)	1.3 J	0.52 J
43 S. Gray	IA-090221-TP-070	Main level	9/2/2021	5.6	0.46 J	1.7	ND	ND	ND	ND	ND	0.91	4.3	0.79 J	2.9	1.0 J
Interim Mitigation			9/29/2021	Smoke Test of Sewer												
Interim Mitigation			10/12/2021	Repair of Sewer Following Smoke Test And Performed an Air Exchange												
43 S. Gray	AC-102721-TP-075	Crawlspace	10/27/2021	133	1.7 J	2.1	3.2 J	6.2	4.3	ND (0.26)	0.41	1.7	7.5	1.4	5.5	1.9
43 S. Gray	IA-102721-TP-073	Basement	10/27/2021	163	4.5	4.7	ND (0.22)	8.0	5.0	ND (0.41)	0.54	2.4	11.6	1.8	7.4	2.7
43 S. Gray	IA-102721-TP-074	Basement Duplicate	10/27/2021	160	2.9	4.7	ND (0.22)	7.9	4.8	ND (0.13)	0.54	2.3	11.6	1.8	7.4	2.7
43 S. Gray	IA-102721-TP-076	Main level	10/27/2021	142	4.3	11.6	3.0 J	7.3	4.6	ND (0.27)	0.45	5.4	28.7	4.6	18.6	6.2
Interim Mitigation			11/10/2021	Three Sanuvox Units Reinstalled in Residence												
43 S. Gray	GU-111921-TP-078	Subslab**	11/17/2021	1.3	0.77 J	ND (0.35)	1.7	8.7	ND (0.31)	ND (0.27)	ND (0.24)	0.24 J	0.66 J	ND	ND (0.59)	ND (0.36)
43 S. Gray	AC-111921-TP-080	Crawlspace	11/17/2021	Regulator Malfunction - No Results Reported												
43 S. Gray	IA-111921-TP-079	Basement	11/17/2021	31.5	1.8	4.2	ND (0.55)	1.7	ND (0.31)	ND (0.33)	ND (0.24)	1.4	7.0	1.0	3.9	1.4
43 S. Gray	IA-111921-TP-081	Main level	11/17/2021	25.1	1.5	4.9	ND (0.55)	1.3	0.57 J	ND (0.27)	ND (0.24)	2.2	14.2	1.9	6.9	2.5
43 S. Gray	IA-111921-TP-082	Main level Duplicate	11/17/2021	28.2	1.8	5.8	ND (0.55)	1.5	ND (0.31)	ND (0.33)	ND (0.24)	2.7	16.8	2.1	7.4	2.8

**TABLE 4 (cont.)
Former P.R. Mallory Facility**

East Side Vapor Intrusion Sampling
43 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Conduit Vapor Published Levels*				70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
Interim Mitigation			12/02/2021	Installed iWave												
43 S. Gray	GS-121721-TP-085	Sewer Conduit in Basement*	12/17/2021	784	48.7 J	5570	17.9 J	70.1	24.1	ND (8.0)	ND (4.1)	ND (5.4)	ND (11.6)	ND (14.6)	ND (30.4)	ND (12.8)
43 S. Gray	GU-121721-TP-083	Subslab**	12/17/2021	1.1	0.84 J	0.38	8.4	11.6	ND (0.30)	ND (0.83)	ND (0.13)	ND (0.17)	0.77J	ND(0.47)	ND (0.98)	ND (0.41)
43 S. Gray	AC-121721-TP-086	Crawlspace	12/17/2021	38.4	1.4 J	2.60	ND (0.56)	1.8 J	ND (0.37)	ND (0.32)	ND (0.17)	2.2	10.6	1.4 J	5.1	1.6 J
43 S. Gray	IA-121721-TP-084	Basement	12/17/2021	25.8	0.75 J	1.70	0.47 J	1.2 J	ND (0.28)	0.81 J	ND (0.13)	3.7	20.7	2.8	10.7	3.5
43 S. Gray	IA-121721-TP-087	Main level	12/17/2021	29.2	1.3 J	2.10	ND (0.44)	1.3 J	ND (0.30)	ND (0.26)	ND (0.13)	4.9	26.5	3.5	13.9	4.5
43 S. Gray	GS-011522-TP-095	Sewer Conduit in Basement*	1/15/2022	2000	137	905	20.5	249	ND (0.31)	ND (0.33)	15.3	1.6	4.8	1.5	5.5	1.8
43 S. Gray	AC-011522-TP-094	Crawlspace	1/15/2022	79.8	2.5	ND (0.35)	7.1	4.5	3.1	1.8	ND (0.24)	1.4	5.4	1.1	3.7	1.3
43 S. Gray	IA-011522-TP-093	Basement	1/15/2022	43.4	1.66	ND (0.35)	2.4	2.5	1.7	ND (0.27)	ND (0.24)	2.0	9.1	1.6	5.9	2.0
43 S. Gray	IA-011522-TP-096	Main level	1/15/2022	36.7	1.1 J	ND (0.35)	1.3	2.0	1.5	ND (0.27)	ND (0.24)	2.4	11.9	1.9	7.5	2.5
Interim Mitigation			4/20/2022	SMA Installed Sewer Vapor Extraction												
43 S. Gray	IA-062222-TP-017	Sewer Conduit in Basement*	6/22/2022	72	10	2400	23.0	5.0	6.0	ND (0.79)	2.4	4.2	9.4	2.5	8.6	2.8
43 S. Gray	IA-062222-TP-018	Sewer Conduit in Basement - DUP*	6/22/2022	68	9.7	2500	22.0	4.7	5.4	ND (0.79)	2.3	4.1	9.6	2.5	8.7	3.0
43 S. Gray	IA-062222-TP-016	Crawlspace	6/22/2022	0.54	0.48	0.92	ND (0.20)	ND (0.16)	ND (0.12)	ND (0.12)	ND (0.08)	0.9	4.2	0.6	2.1	0.9
43 S. Gray	IA-062222-TP-015	Basement	6/22/2022	0.83	0.25	1.50	ND (0.27)	ND (0.22)	ND (0.16)	ND (0.16)	ND (0.10)	1.2	6.1	0.9	3.2	1.2
43 S. Gray	IA-062222-TP-014	Main level	6/22/2022	0.73	0.55	1.50	ND (0.85)	ND (0.16)	ND (0.12)	ND (0.12)	ND (0.08)	1.3	6.1	0.9	3.2	1.2
43 S. Gray	SG-081222-TP-021	Sewer Conduit in Basement*	8/12/2022	16.2	2	1200	9.1	1.0 J	2.5	ND (0.26)	1.1	1.6	6.9	1.3 J	5.7	2.1
43 S. Gray	AC-081222-TP-019	Crawlspace	8/12/2022	ND (0.29)	0.42 J	0.47 J	ND (0.44)	ND (0.28)	ND (0.29)	ND (0.25)	ND (0.13)	0.73	3.4	ND (0.46)	3.3	1.3 J
43 S. Gray	IA-081222-TP-020	Basement	8/12/2022	ND (0.30)	ND (0.43)	0.57 J	ND (0.45)	ND (0.29)	ND (0.30)	ND (0.26)	ND (0.13)	1.1	5.7	0.71 J	4.4	1.7
43 S. Gray	IA-081222-TP-022	Main level	8/12/2022	ND (0.30)	ND (0.43)	0.75 J	ND (0.44)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.13)	1.2	5.9	0.72 J	4.5	1.5
43 S. Gray	AC-013123-TP-004	Crawlspace	1/31/2023	48^	0.38 J	0.72	ND (0.34)	1.9	1.3	ND (0.58)	ND (0.13)	0.62	1.6	ND (0.25)	0.89 J	0.32 J
43 S. Gray	AC-013123-TP-005	Basement	1/31/2023	29.3^	2.2 J	0.47 J	ND (0.36)	1.1 J	0.81 J	ND (0.60)	ND (0.14)	0.89	3.4	0.49 J	1.9 J	0.69 J
43 S. Gray	AC-013123-TP-006	Basement - DUP	1/31/2023	28.2^	2.4 J	0.48 J	ND (0.35)	1.1 J	0.72 J	ND (0.59)	ND (0.14)	0.87	3.1	0.49 J	1.8 J	0.65 J
43 S. Gray	AC-013123-TP-007	Sewer Conduit in Basement*	1/31/2023	4030^	123	519^	17.7	152	76.9	2.9 J	7.7	2.7	1.6 J	ND (0.66)	ND (1.8)	ND (0.66)
43 S. Gray	AC-013123-TP-008	Main level	1/31/2023	28.1^	3.3 J	0.54 J	ND (0.36)	1.1 J	0.76 J	ND (0.61)	ND (0.14)	1.1	4.5	0.68 J	2.6	0.96 J

**TABLE 4 (cont.)
Former P.R. Mallory Facility**

East Side Vapor Intrusion Sampling
43 South Gray Street
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Conduit Vapor Published Levels*				70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
43 S. Gray	SEG-081123-TP-001	Sewer Conduit in Basement*	8/11/2023	ND (3.60)	ND (4.23)	ND (3.27)	ND (4.56)	ND (3.66)	ND (2.66)	ND (2.66)	ND (1.72)	7.79	30.5	3.91	13.6	4.73
43 S. Gray	AC-081123-TP-009	Crawlspace	8/11/2023	5.57	ND (2.52)	ND (1.95)	ND (1.36)	ND (2.18)	ND (1.59)	ND (1.59)	ND (1.02)	ND (0.639)	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)
43 S. Gray	IA-081123-TP-008	Basement	8/11/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	1.61	6.10	ND (0.867)	2.74	0.941
43 S. Gray	IA-081123-TP-006	Main level	8/11/2023	2.51	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	0.885	2.73	ND (0.867)	ND (1.73)	ND (0.867)
43 S. Gray	IA-081123-TP-007	Main level Duplicate	8/11/2023	1.48	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	2.30	12.0	1.17	4.02	1.40

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2

IDEM = Indiana Department of Environmental Management

R2 = Risk-Based Closure Guide, July 8, 2022

RIAPL = Residential Indoor Air Published Level

ND = Not detected at the associated reporting limit

J = Estimated concentration

ug/m3 = micrograms per cubic meters

** & * = subslab and conduit sample results, respectively, were only compared to the Residential Conduit Vapor Published Levels

^Interim SVE system was nonoperational during January 2023 sampling event

TABLE 5
Former P.R. Mallory Facility

East Side Vapor Intrusion Sampling
3216 Moore Avenue
Indianapolis, Indiana

Location	Sample ID	Sample Location	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Indoor Air Published Level				2	5	1	40	5000	40	40	2	4	5000	10	100	100
Action Level (10X RIAPL)				20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
3216 Moore	AC-050521-TP-033	Crawlspace	5/5/2021	23.7	0.59 J	ND (0.59)	0.89	0.56 J	0.47 J	0.26 J	ND (0.31)	0.30 J	3.5	ND (1.1)	ND (2.1)	ND (1.1)
3216 Moore	IA-050521-TP-032	Main level	5/5/2021	174	0.95 J	0.50 J	3.8	4.1	3.8	ND (1.2)	ND (0.40)	0.31 J	3.1	ND (1.4)	ND (2.7)	ND (1.4)
Interim Mitigation			6/2/2021	Air Exchange												
Interim Mitigation			6/4/2021	Two Sanuvox Units Placed in Residence												
3216 Moore	IA-061121-TP-043	Main level	6/11/2021	0.45 J	ND (2.0)	0.46 J	ND (1.1)	ND (1.8)	ND (1.3)	0.43 J	ND (0.41)	0.64	4.1	0.80 J	1.8 J	0.69 J
3216 Moore	IA-061121-TP-044	Main level Duplicate	6/11/2021	0.37 J	ND (2.0)	0.44 J	ND (1.1)	ND (1.8)	ND (1.3)	ND (1.3)	ND (0.41)	0.65	4.2	0.85 J	2.0 J	0.65 J
3216 Moore	IA-081222-TP-023	Main Level	8/12/2022	ND (0.27)	0.62 J	1.3	ND (0.41)	ND (0.26)	ND (0.27)	ND (0.23)	ND (0.12)	2.4	7.6	1.3	4.3	1.5
3216 Moore	IA-081222-TP-024	Main Level	8/12/2022	ND (0.27)	0.55 J	1.2	ND (0.41)	ND (0.26)	ND (0.27)	ND (0.23)	ND (0.12)	2.3	8.1	1.3	4.2	1.5
3216 Moore	AC-081222-TP-025	Crawlspace	8/12/2022	ND (0.30)	0.46 J	ND (0.28)	ND (0.44)	ND (0.28)	ND (0.30)	ND (0.26)	ND (0.13)	0.69	2.6	0.48 J	1.6 J	0.53 J
Ambient Air	AA-081222-TP-026	Ambient Air	8/12/2022	ND (0.49)	ND (0.71)	ND (0.46)	ND (0.74)	ND (0.47)	ND (0.49)	ND (0.42)	ND (0.22)	0.51 J	1.5 J	ND (0.78)	ND (1.6)	ND (0.68)
3216 Moore	AC-013123-TP-011	Crawlspace	1/31/2023	39.2^	ND (0.58)	ND (0.19)	ND (0.34)	0.53 J	ND (0.30)	ND (0.58)	ND (0.13)	0.89	1.4	ND (0.25)	0.72 J	ND (0.25)
3216 Moore	AC-013123-TP-012	Main Level	1/31/2023	54.5^	2.6 J	0.31 J	ND (0.36)	0.75 J	0.33 J	ND (0.61)	ND (0.14)	2.2	4.5	0.57 J	2.0 J	0.55 J
3216 Moore	AC-033023-TP-001	Crawlspace	3/30/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	0.81	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)
3216 Moore	AC-033023-TP-002	Main Level	3/30/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	4.38	8.51	1.13	3.62	0.949
3216 Moore	AC-033023-TP-003	Main level Duplicate	3/30/2023	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	1.6	4.97	ND (0.867)	1.85	ND (0.867)
3216 Moore	IA-081123-TP-012	Main level	8/11/2023	ND (1.07)	ND (1.26)	ND (0.973)	3.94	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	6.74	15.5	2.36	6.68	2.23
3216 Moore	IA-081123-TP-013	Crawlspace	8/11/2023	Regulator Malfunction - No Results Reported												
3216 Moore	IA-02142024-AH-005	Crawlspace	2/15/2024	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	0.677	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)
3216 Moore	IA-02142024-AH-004	Main level	2/15/2024	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	2.94	6.55	0.923	3.03	0.980
3216 Moore	AA-02142024-AH-001	Ambient Air	2/15/2024	ND (1.07)	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	ND (0.639)	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2
IDEM = Indiana Department of Environmental Management
R2 = Risk-Based Closure Guide, July 8, 2022
RIAPL = Residential Indoor Air Published Level

ND = Not detected at the associated reporting limit
J = Estimated concentration
ug/m3 = micrograms per cubic meters
^Interim SVE system was nonoperational during January 2023 sampling event

TABLE 6
Former P.R. Mallory Facility
 Sewer Sampling Results
 East Side Vapor Intrusion Sampling

Location	Sample ID	Sample Type	Date	Trichloroethene	Carbon tetrachloride	Chloroform (Trichloromethane)	Tetrachloroethene	1,1,1-Trichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Conduit Vapor Published Levels				70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
MH-1	GS-060121-TP-001	N	6/1/2021	16,700	279	108	264	667	ND (88.5)	ND (88.5)	24.6 J	ND (35.7)	ND (84.1)	ND (97)	ND (194)	ND (97)
MH-2	GS-060121-TP-002	N	6/1/2021	32,600	465	146	884	1,160	896	ND (177)	ND (57.1)	ND (71.4)	ND (168)	ND (194)	ND (389)	ND (194)
MH-3	GS-060121-TP-003	N	6/1/2021	738	11.2	6.3	4.2	18.8	14.8	ND (1.5)	ND (0.48)	0.26 J	1.2 J	ND (1.6)	ND (3.2)	ND (1.6)
	GS-060121-TP-004	FD	6/1/2021	839	11.1	6.0	4.0	18.3	13.7	ND (1.5)	ND (0.48)	0.27 J	0.78 J	ND (1.6)	ND (3.2)	ND (1.6)
MH-4	GS-060121-TP-005	N	6/1/2021	1,040	169	19.8	9.0	62.4	13.7	ND (1.5)	ND (0.49)	0.32 J	1.2 J	ND (1.7)	ND (3.3)	ND (1.7)
MH-5	GS-060121-TP-008	N	6/1/2021	7,910	254	63.2	1,250	564	755	7.6	18.2	0.73	2.1	ND (1.6)	ND (3.2)	ND (1.6)
MH-6	GS-060121-TP-009	N	6/1/2021	10,100	ND (136)	22.8 J	7,380	2,360	ND (85.6)	28.5 J	152	ND (34.5)	ND (81.3)	ND (93.8)	ND (188)	ND (93.8)
MH-7	GS-060121-TP-006	N	6/1/2021	77.8	1.1 J	58.6	1.2 J	1.9 J	4.0	ND (1.5)	ND (0.49)	0.34 J	1.1 J	ND (1.7)	ND (3.3)	ND (1.7)
MH-11	GS-060121-TP-007	N	6/1/2021	5.5	ND (2.4)	35.1	ND (1.3)	0.62 J	0.73 J	ND (1.5)	ND (0.49)	0.37 J	2.4	ND (1.7)	ND (3.4)	ND (1.7)
SG-10	SG-060121-TP-010	N	6/1/2021	0.91 J	ND (0.53)	ND (0.35)	13.8	ND (0.35)	ND (0.37)	ND (0.32)	ND (0.16)	ND (0.22)	ND (0.46)	ND (0.59)	ND (1.2)	ND (0.51)
Interim Mitigation			4/20/2022	SMA Installed Sewer Vapor Extraction												
MH-1	SG-051922-TP-001	N	5/19/2022	360	18	17	11	25	15	ND (0.79)	ND (0.51)	ND (0.64)	1.7	ND (0.87)	ND (1.7)	ND (0.87)
MH-2	SG-051922-TP-002	N	5/19/2022	1,800	18	11	13	40	21	0.89	ND (0.51)	0.86	1.1	ND (0.87)	ND (1.7)	ND (0.87)
MH-3	SG-051922-TP-003	N	5/19/2022	31	1.4	ND (0.98)	ND (1.4)	ND (1.1)	ND (0.79)	ND (0.79)	ND (0.51)	ND (0.64)	ND (0.75)	ND (0.87)	ND (1.7)	ND (0.87)
MH-4	SG-051922-TP-004	N	5/19/2022	1.6	ND (1.3)	ND (0.98)	ND (1.4)	ND (1.1)	ND (0.79)	ND (0.79)	ND (0.51)	1.1	0.92	ND (0.87)	ND (1.7)	ND (0.87)
MH-6	SG-051922-TP-005	N	5/19/2022	120	ND (1.3)	ND (0.98)	66	17	25	ND (0.79)	ND (0.51)	ND (0.64)	ND (0.75)	ND (0.87)	ND (1.7)	ND (0.87)
MH-1	SG-062122-TP-006	N	6/21/2022	1,200	33	40	17	140	100	1.5	3.4	1.2	1.4	ND (0.87)	ND (1.7)	ND (0.87)
MH-2	SG-062122-TP-007	N	6/21/2022	4,400	69	44	85	180	170	3.6	7.2	3.7	1.1	ND (0.87)	ND (1.7)	ND (0.87)
MH-3	SG-062122-TP-008	N	6/21/2022	12	1.8	ND (0.98)	ND (1.4)	ND (1.1)	ND (0.79)	ND (0.79)	ND (0.51)	ND (0.64)	1.2	ND (0.87)	ND (1.7)	ND (0.87)
MH-4	SG-062122-TP-009	N	6/21/2022	2.2	ND (1.3)	ND (0.98)	ND (1.4)	ND (1.1)	ND (0.79)	ND (0.79)	ND (0.51)	ND (0.64)	0.81	ND (0.87)	ND (1.7)	ND (0.87)
MH-6	SG-062122-TP-010	N	6/21/2022	2,200	9.6	12	970	1300	810	6	17	ND (0.64)	1.7	ND (0.87)	ND (1.7)	ND (0.87)
MH-1	SG-081222-TP-031	N	8/12/2022	406	15.5	32.6	22.2	60.4	23.7	0.77 J	2	0.69	2	ND (0.56)	ND (1.2)	ND (0.49)
MH-2	SG-081222-TP-032	N	8/12/2022	430	6.7	ND (0.36)	13.4	14	14.1	ND (0.33)	0.96	6.4	70.4	15.5	59.9	22.8
MH-3	SG-081222-TP-033	N	8/12/2022	25.9	2.1 J	1.9	ND (0.55)	4.4	ND (0.36)	ND (0.31)	ND (0.16)	0.62	3.6	1.7	6	2.2
MH-1	SG-013023-TP-001	N	1/30/2023	541^	16.4	5.3	3.5	18.8	18.9	ND (0.79)	1.1	1.2	2.4	0.57 J	2.4 J	1.4 J
MH-2	SG-013023-TP-002	N	1/30/2023	131^	4.4 J	1.0	0.96 J	2.9	1.9	ND (0.71)	ND (0.16)	0.59	0.90 J	ND (0.31)	ND (0.84)	ND (0.30)
MH-3	SG-013023-TP-003	N	1/30/2023	7,290^	10	13.8	40.3	158	111	2.4	2.9	0.97	0.63 J	ND (0.30)	ND (0.83)	ND (0.30)
MH-1	SG-02142024-AH-009	N	2/14/2024	243	7.24	28.7	2.49	18.4	22.3	ND (0.793)	ND (0.511)	1.00	ND (1.88)	ND (0.867)	1.88	ND (0.867)
MH-2	SG-02142024-AH-008	N	2/14/2024	589	5.40	ND (0.973)	6.33	24.9	18.5	ND (0.793)	ND (0.511)	1.40	3.31	ND (0.867)	1.80	ND (0.867)
MH-3	SG-02142024-AH-010	N	2/14/2024	2.07	ND (1.26)	ND (0.973)	ND (1.36)	ND (1.09)	ND (0.793)	ND (0.793)	ND (0.511)	ND (0.639)	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)

Footnotes:

Published levels from Table 1 of IDEM's July 8, 2022 R2
 IDEM = Indiana Department of Environmental Management
 R2 = Risk-Based Closure Guide, July 8, 2022

ND = Not detected at the associated reporting limit
 J = Estimated concentration
 ug/m3 = micrograms per cubic meters
 ^Interim SVE system was nonoperational during January 2023 sampling event

Attachments

Attachment A

Residential Inspections



Residential Inspection Form

Preparer's Name: Tim Planger Date: 1/30/23

Site Address: 9 S Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Tenants						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: Duplex Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

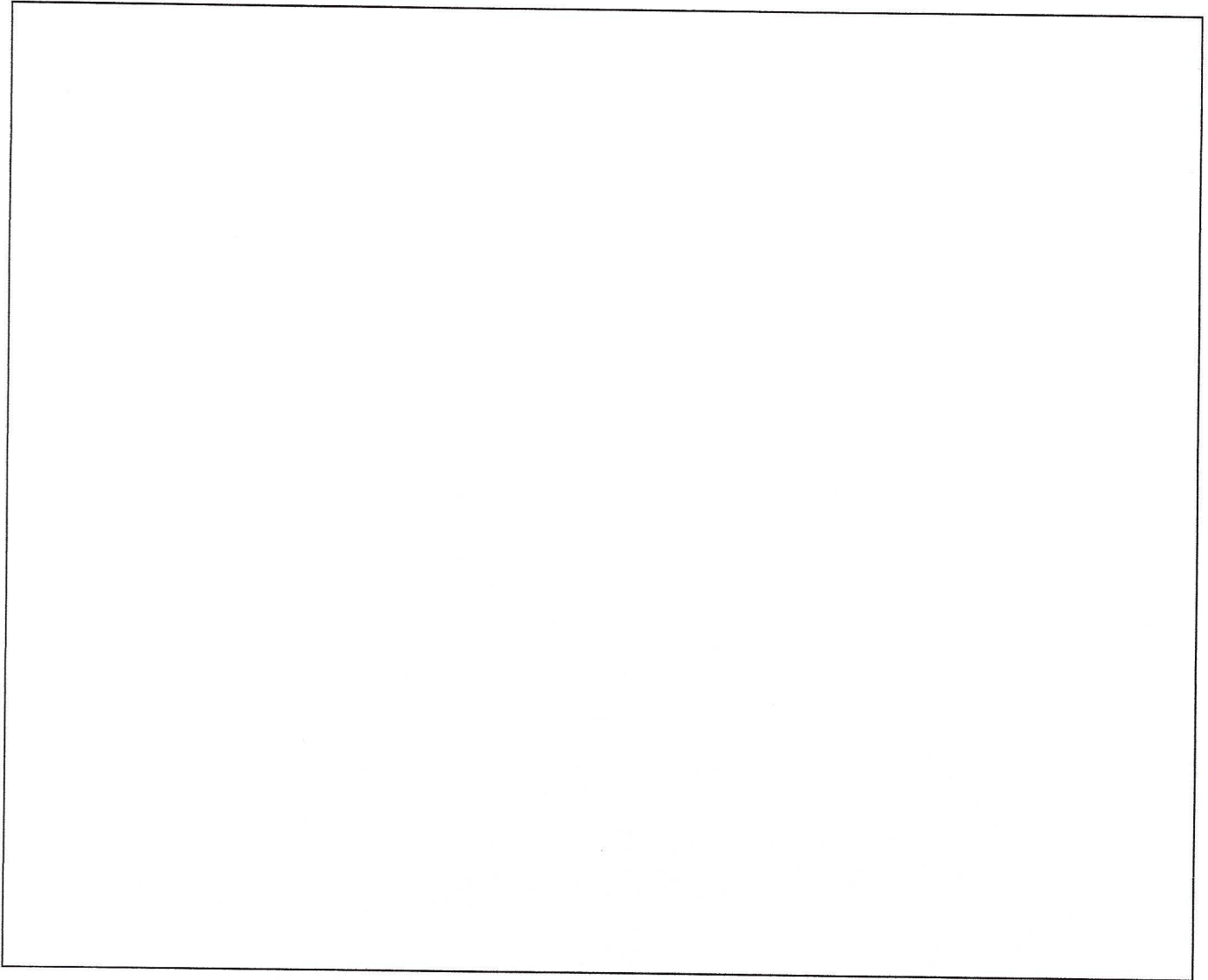
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

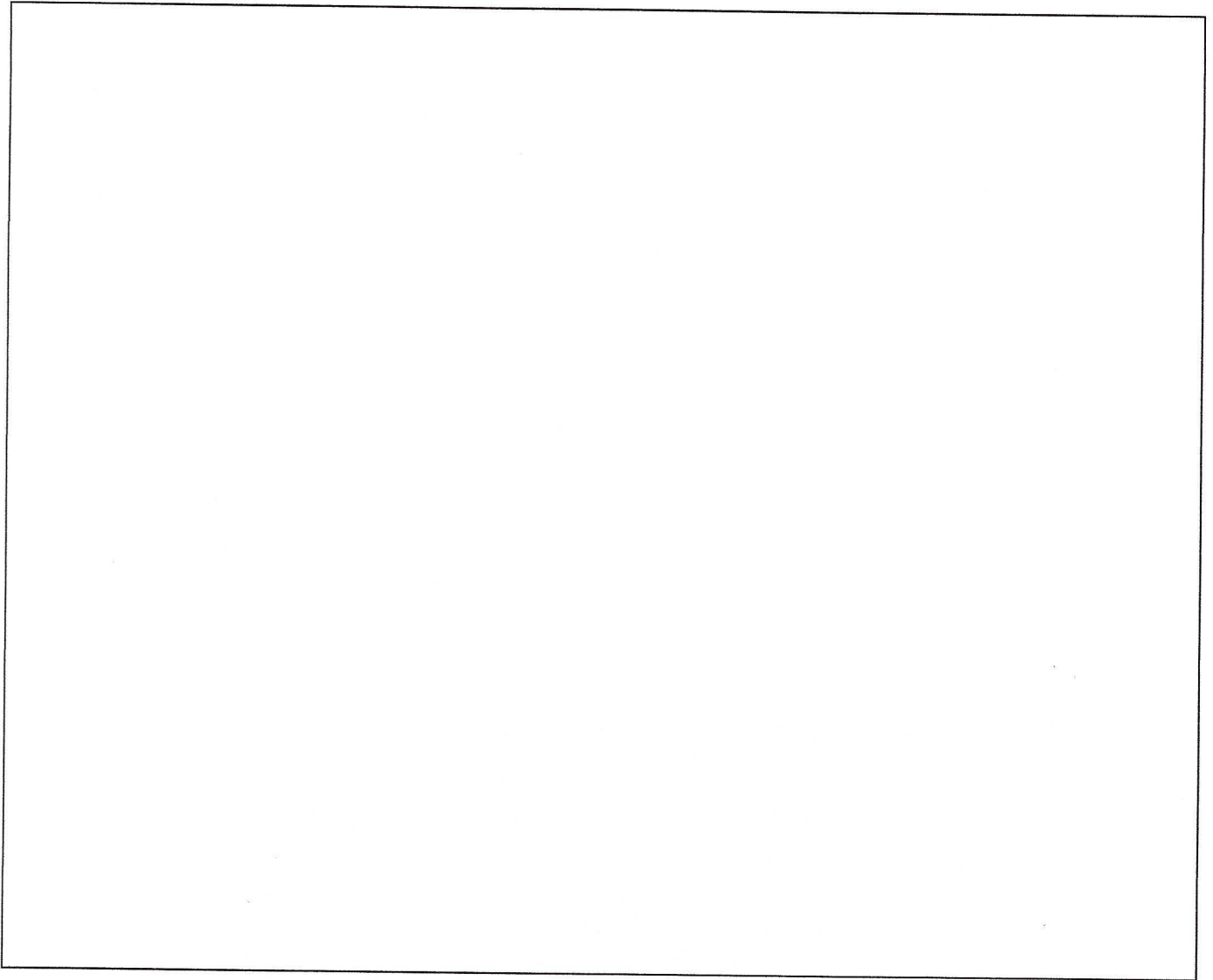
Provide Drawing of the lowest floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the lowest floor of a building. The box is currently blank.

Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box occupies the central portion of the page and is currently blank.

Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Household
Cleaning solvents	Household
Moth balls	NA
Insecticides	NA
New furniture / upholstery	NA
New carpeting / flooring	NA
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	Paints, Glues
Other (specify):	Cluttered House

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

House not clean.



Residential Inspection Form

Preparer's Name: John Kruger Date: 8/7/23

Site Address: 9 S Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same tenants						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: Duplex Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: Same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

List appliances tested and observations: _____

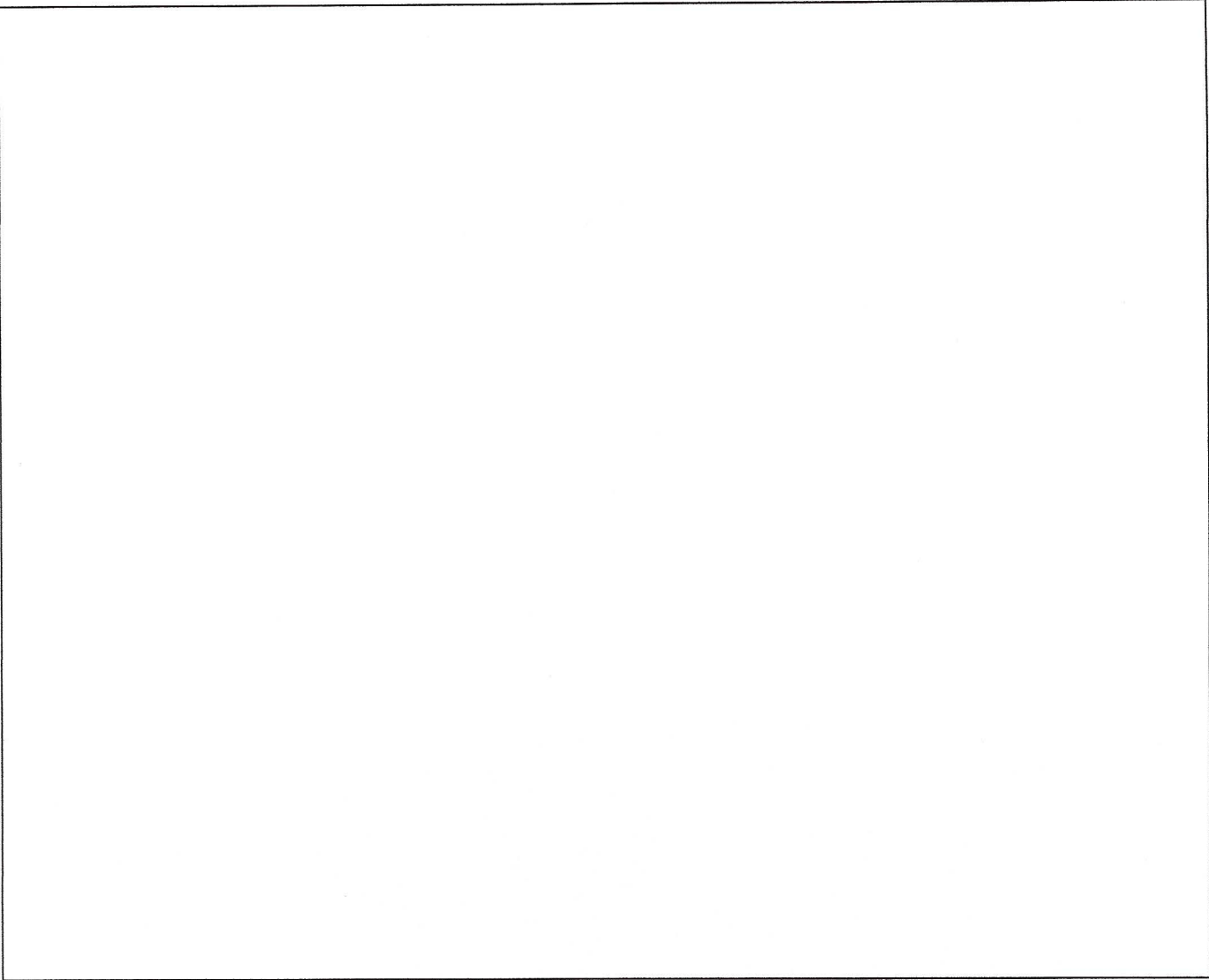
Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

Yes / No Describe:

Same As before

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

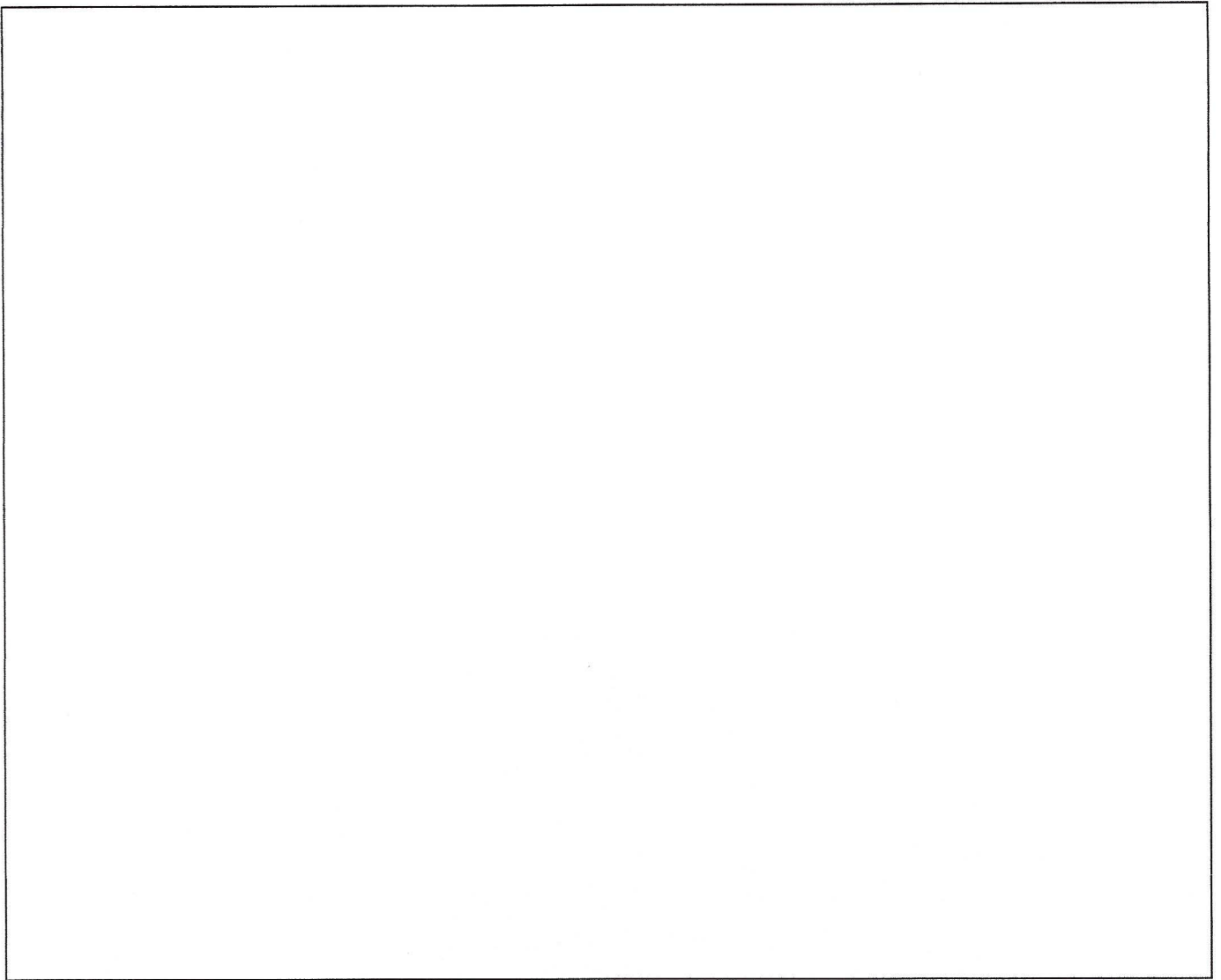
Provide Drawing of the lowest floor of the building



Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box occupies most of the page's width and a significant portion of its height.

Provide Drawing of the second floor of the building, if present



Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Household cleaners
Cleaning solvents	Household cleaners
Moth balls	
Insecticides	
New furniture / upholstery	
New carpeting / flooring	
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	Paints, Glues, gun cleaning kit
Other (specify):	Cluttered House

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Candles, house not very clean



Residential Inspection Form

Preparer's Name: Tim Brown Date: 8/7/23

Site Address: 11 S Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Vacant						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: Duplex Year constructed: _____

Number of floors at or above grade: 1

Number of floors below grade: 1 (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: Asbestos

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

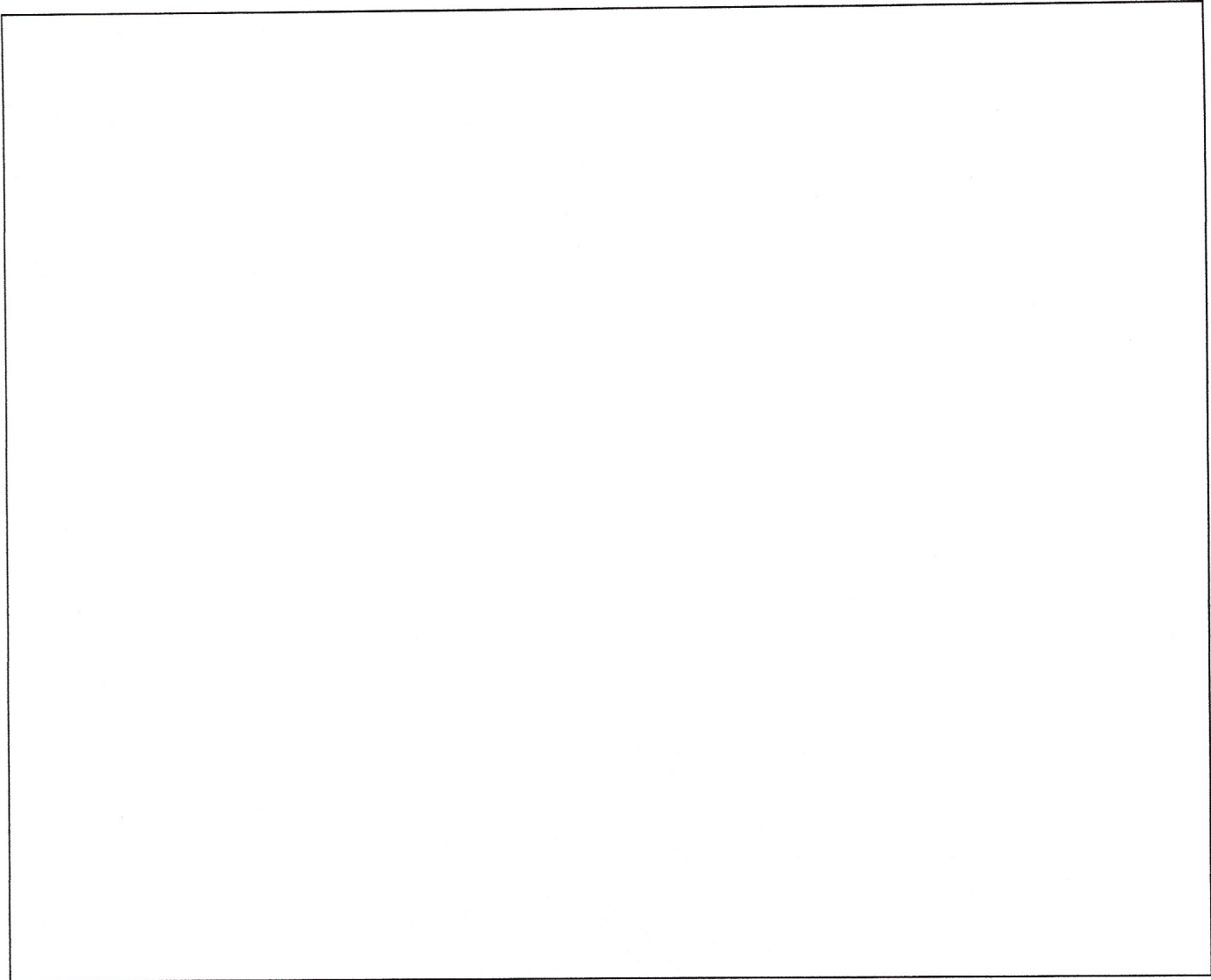
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

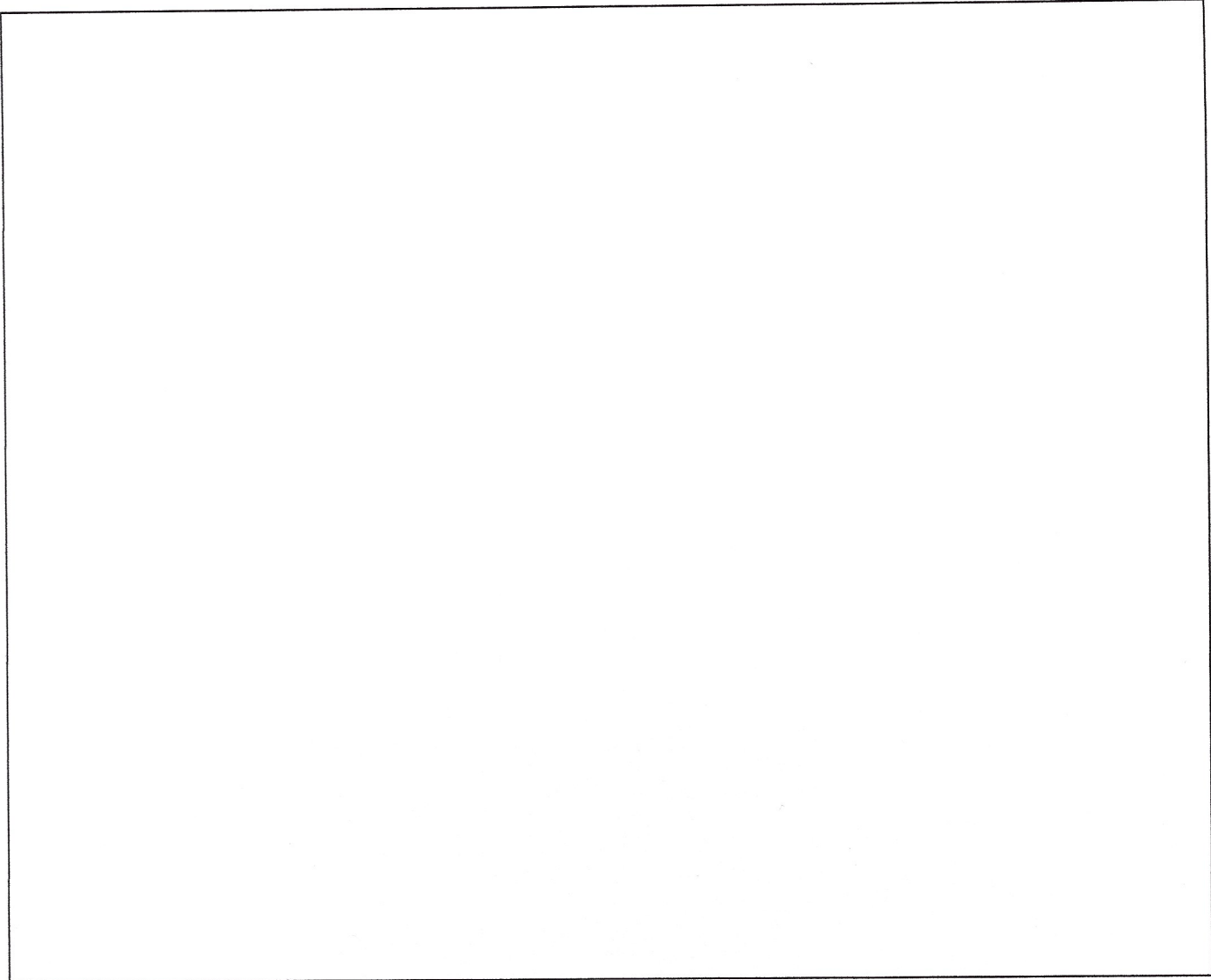
Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

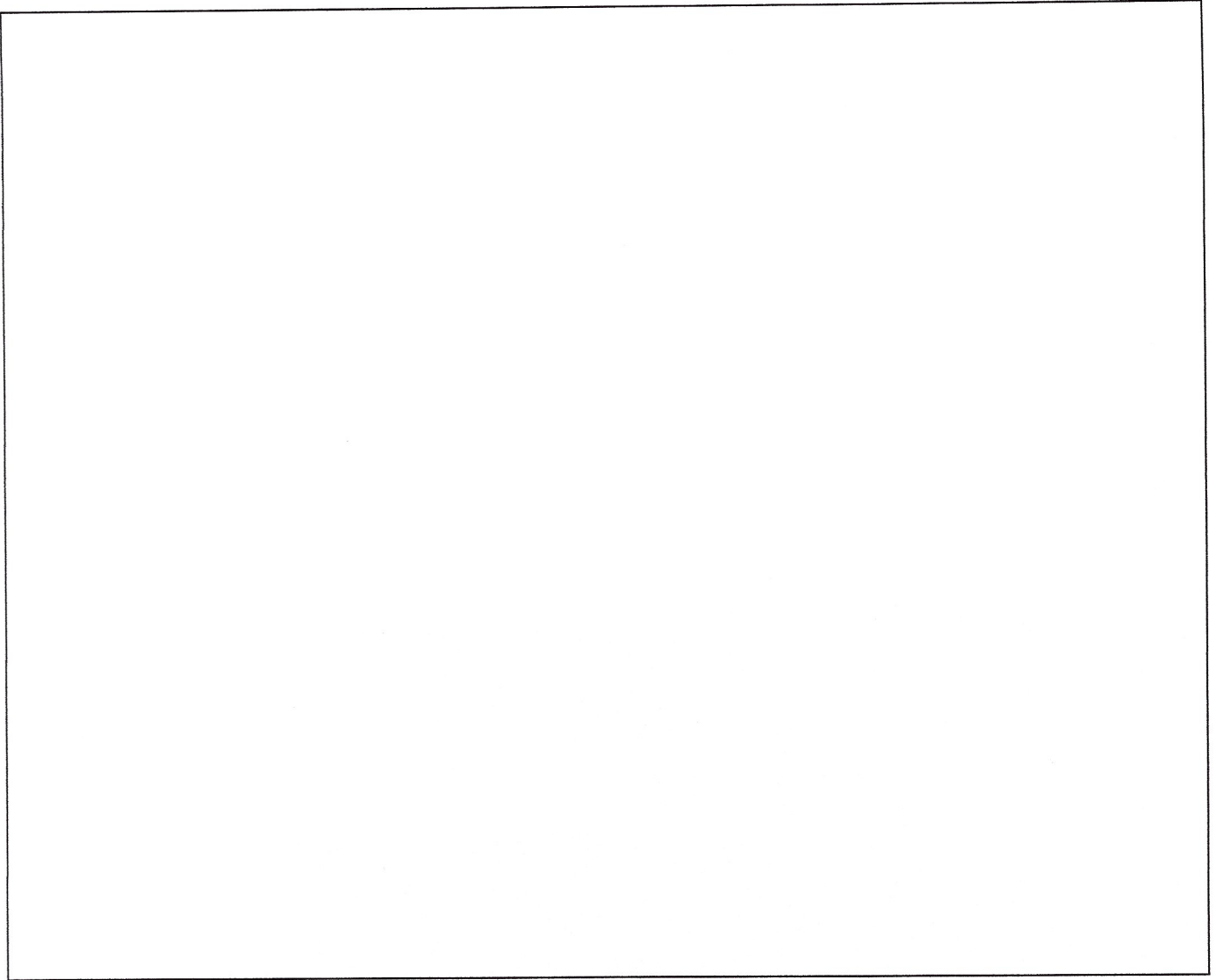
Provide Drawing of the lowest floor of the building



Provide Drawing of the main floor of the building



Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Scattered
Cleaning solvents	bleach
Moth balls	No
Insecticides	No
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	House now vacant. Furniture & cleaning materials still in home. Home looks ransacked.

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No **NA**

Does the building have an attached garage directly connected to living space? Yes / **No**

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No NA

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No NA

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No NA

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Sewer in basement has open cap.



Residential Inspection Form

Preparer's Name: Tom Prange

Date: 1/30/23

Site Address: 17 S. Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Residents						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

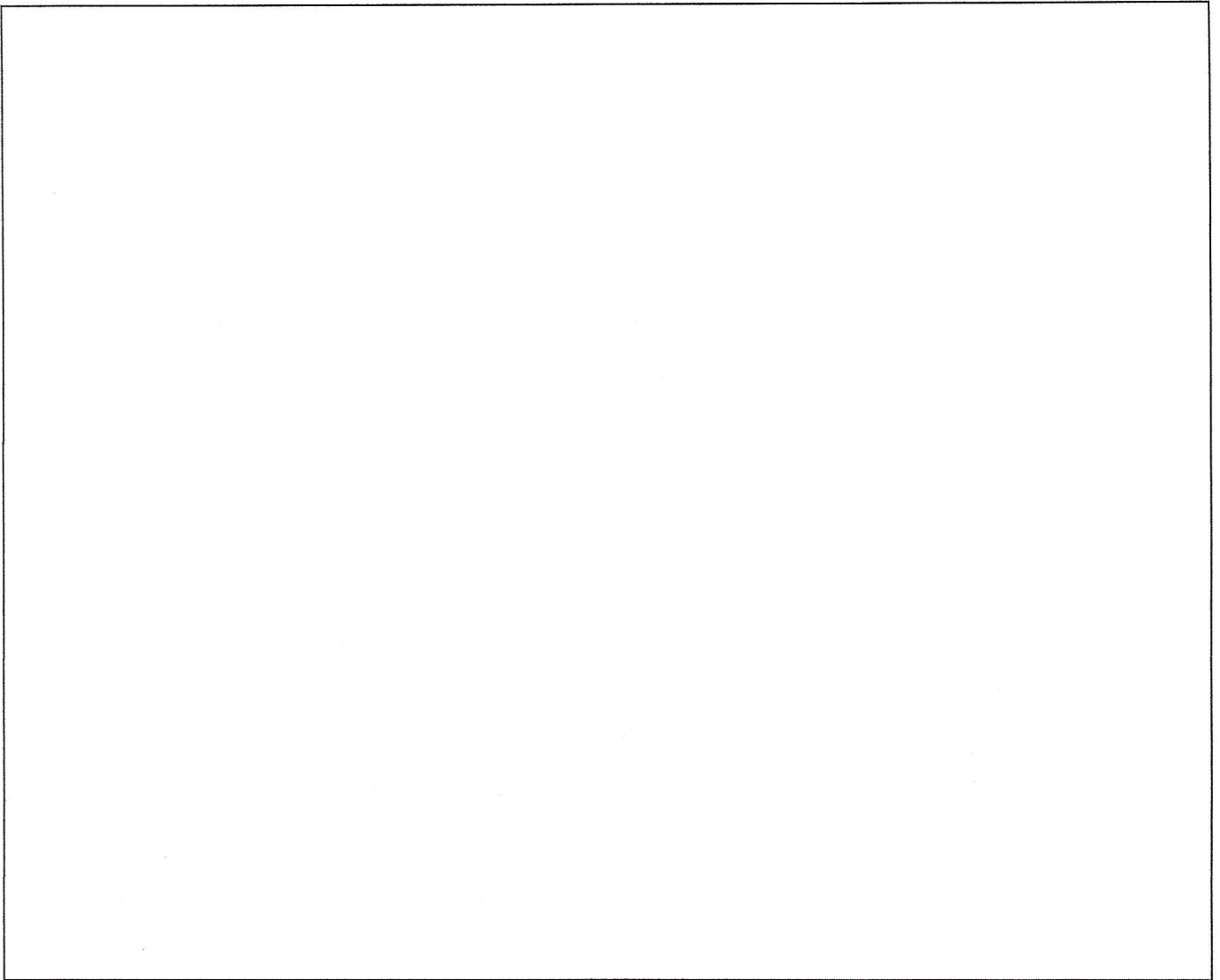
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

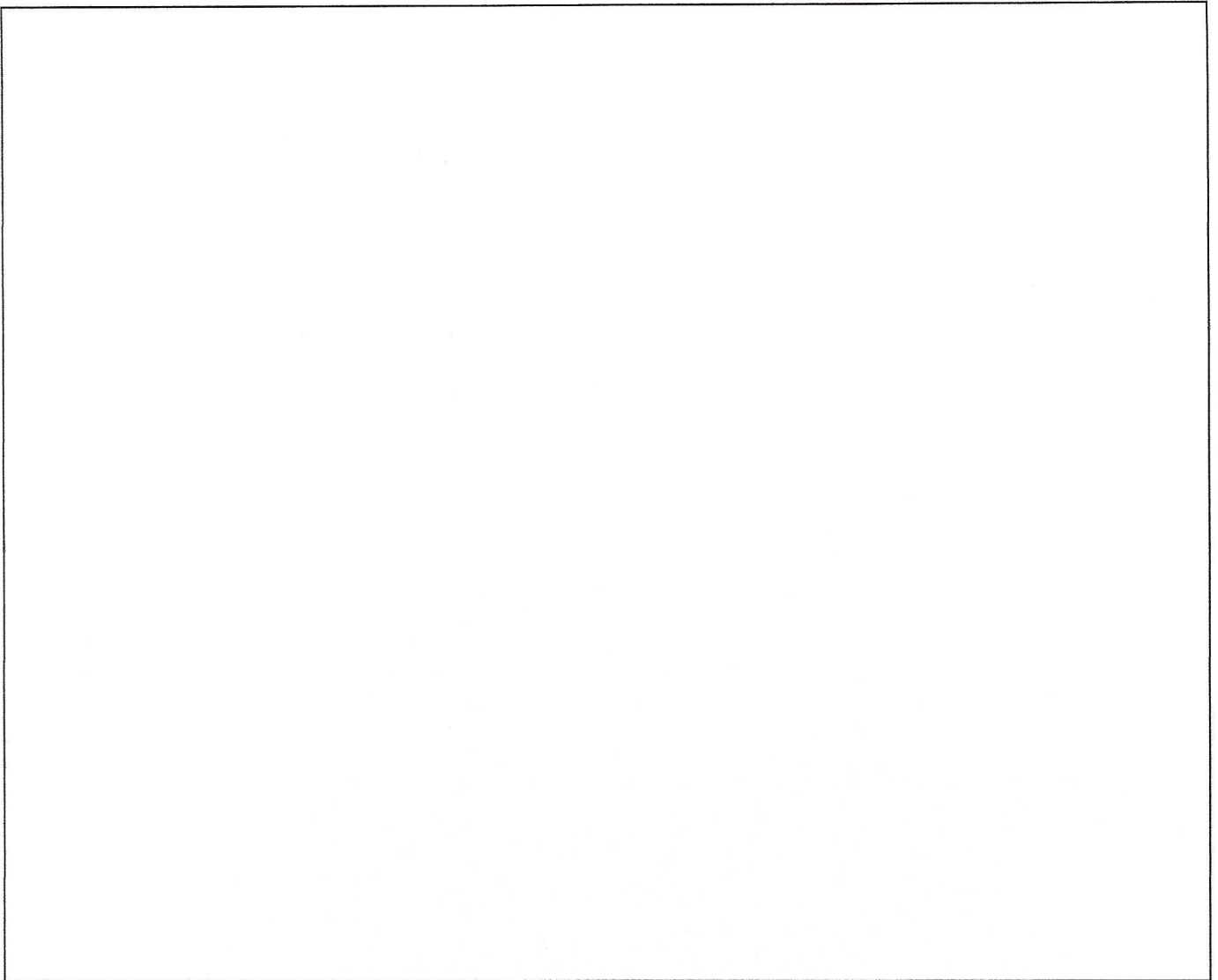
Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

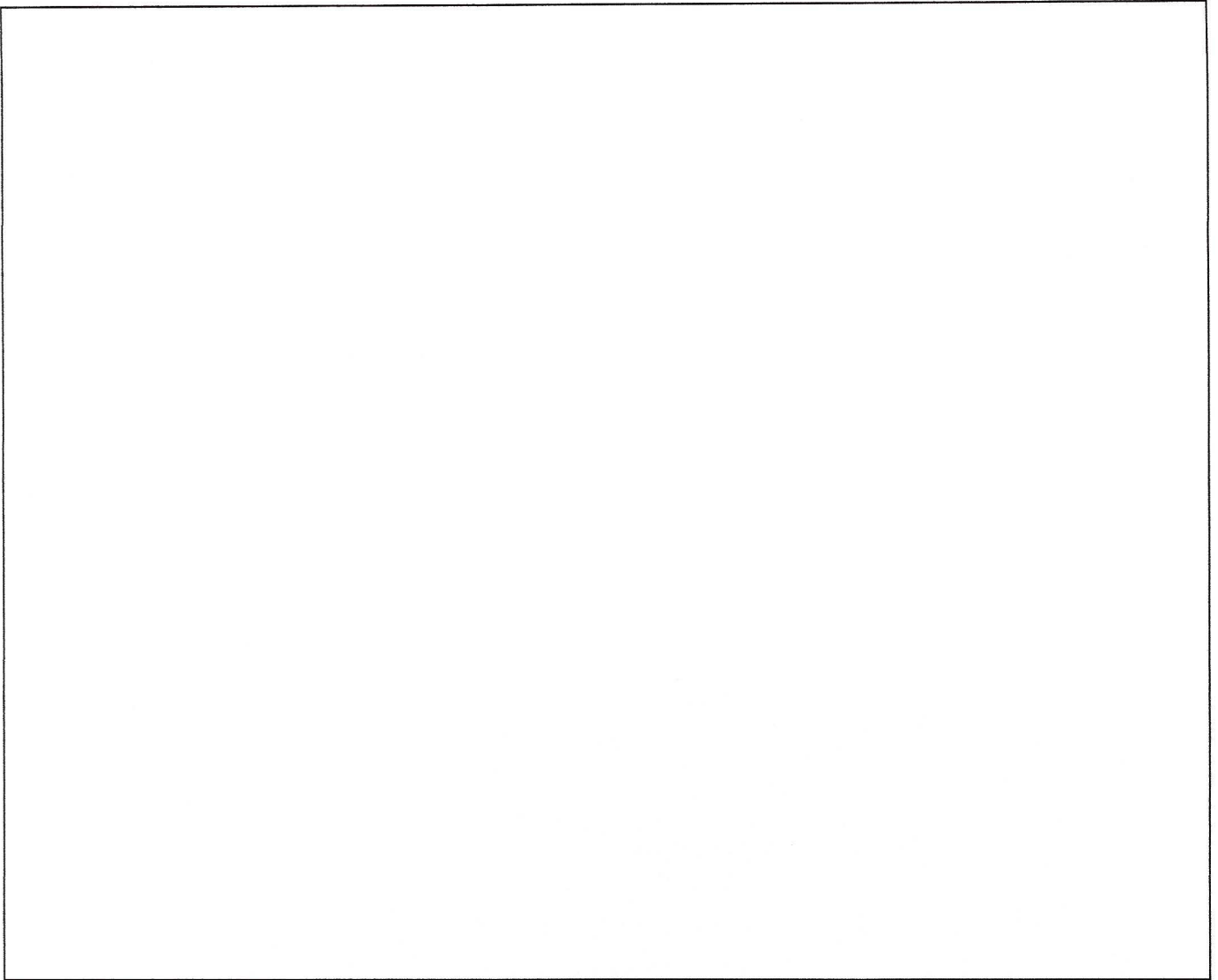
Provide Drawing of the lowest floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the lowest floor of a building. The box is currently blank.

Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box is currently blank.

Provide Drawing of the second floor of the building, if present



Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Paints + Thinners in basement
Cleaning solvents	Normal Household
Moth balls	No
Insecticides	No
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Paints & Thinners 5 L in basement. Some wax units also.



Residential Inspection Form

Preparer's Name: Tim Pranger

Date: 8/10/23

Site Address: 17 S. Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Residents						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: Same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

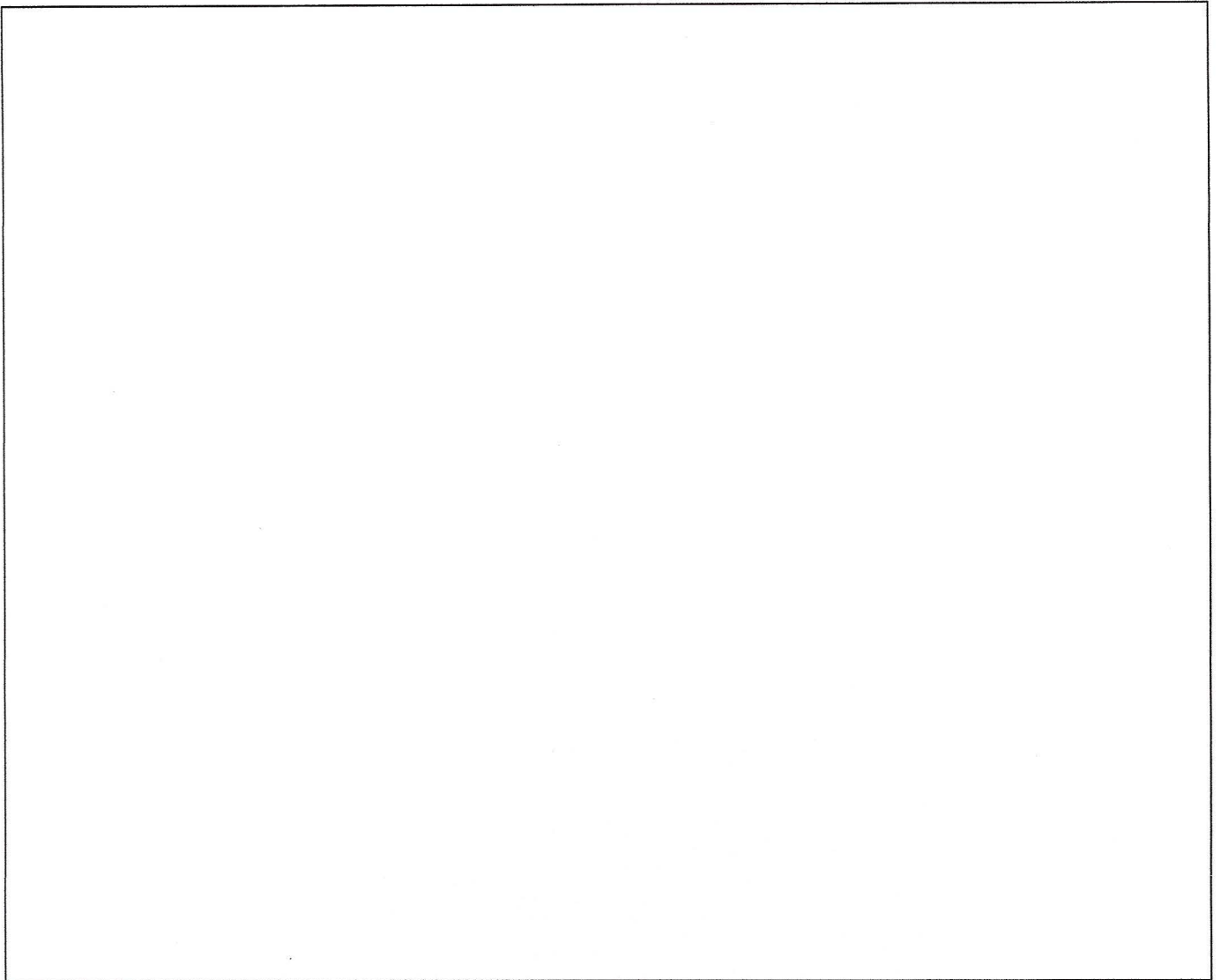
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

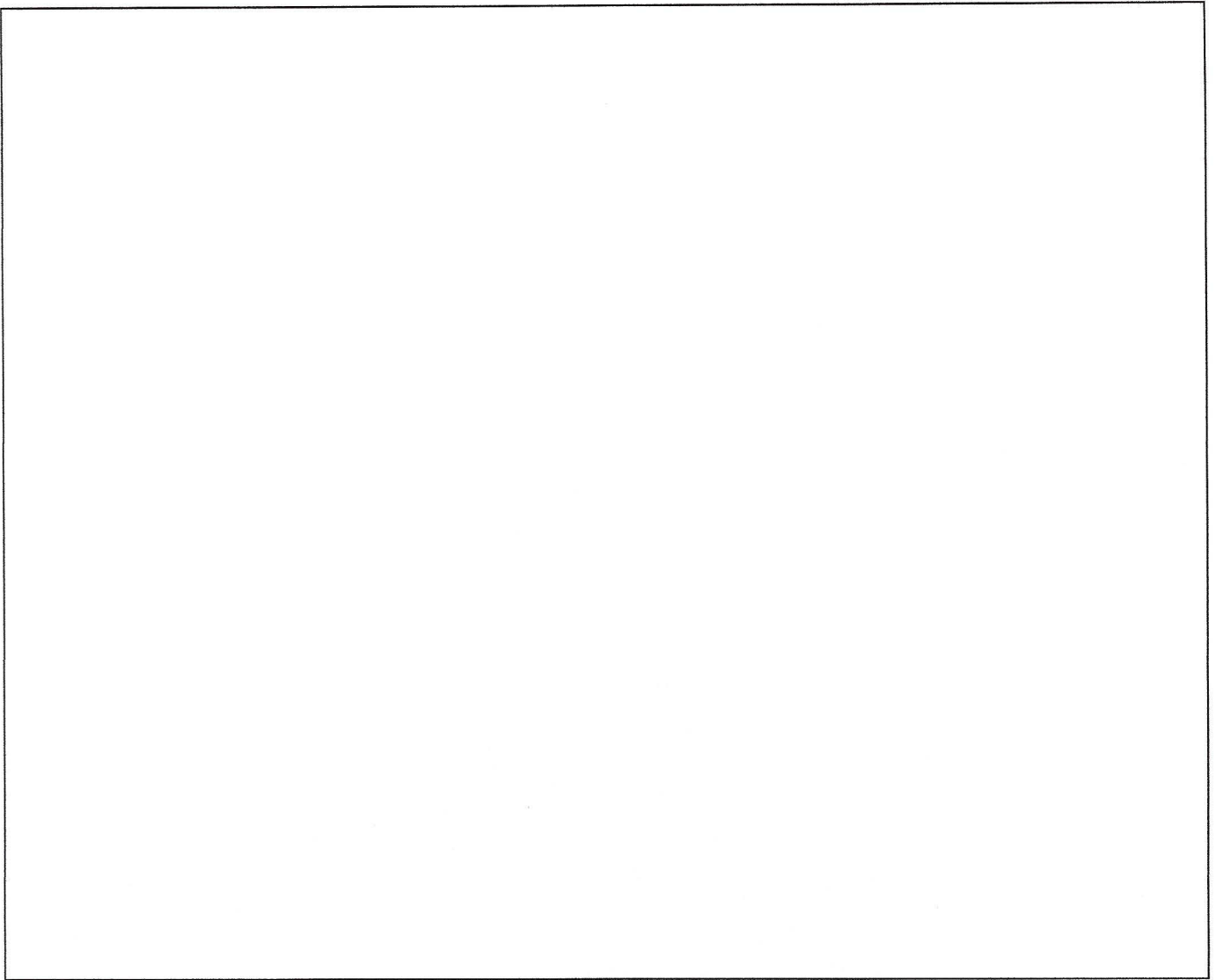
Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

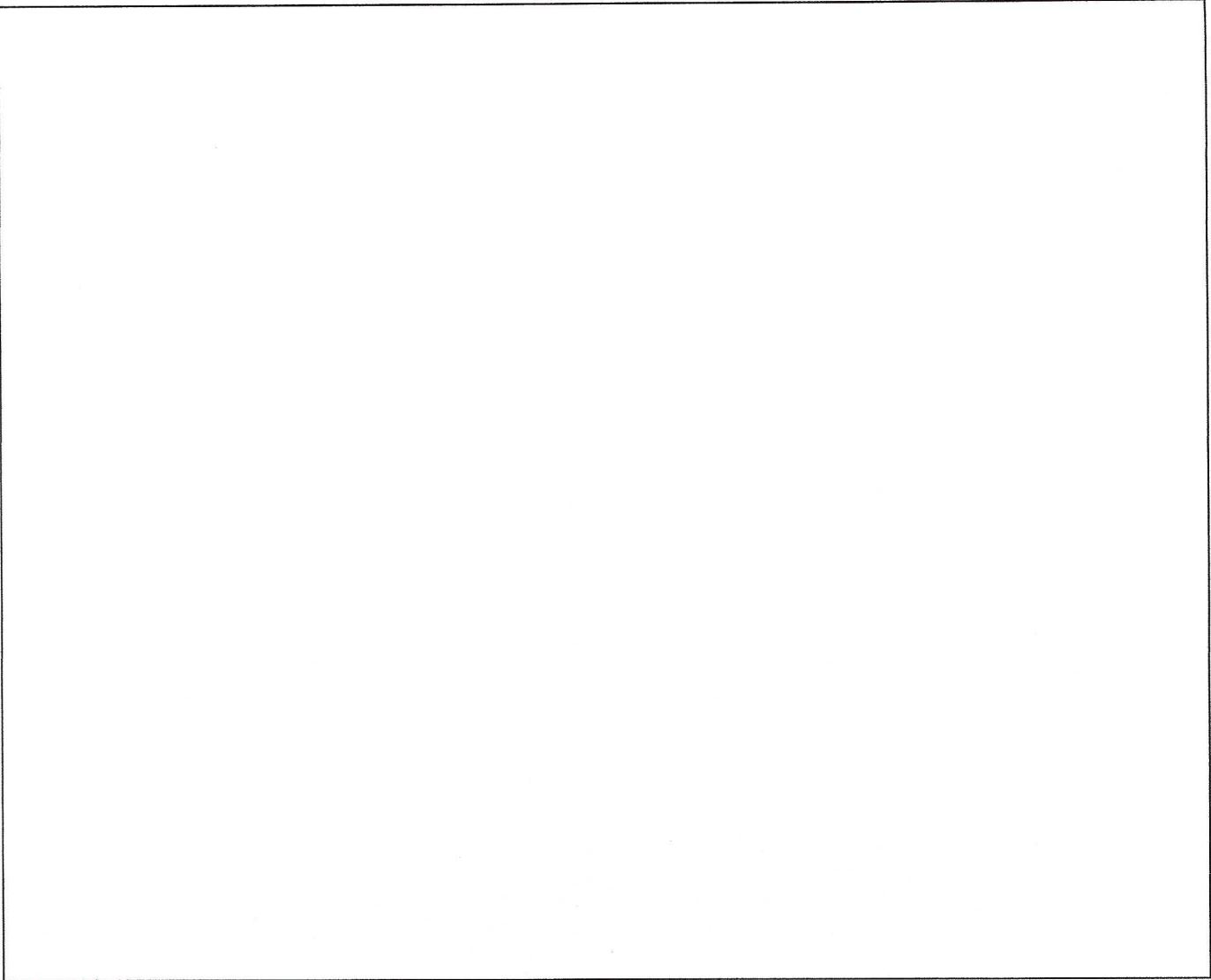
Provide Drawing of the lowest floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the lowest floor of a building. The box is currently blank.

Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box is currently blank.

Provide Drawing of the second floor of the building, if present



Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Paints + Thinners in basement
Cleaning solvents	Household
Moth balls	No
Insecticides	Raid
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Paints + thinners still in basement. Some units not finished.



Residential Inspection Form

Preparer's Name: Tom Prange

Date: 1/30/23

Site Address: 43 S Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Tenants						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: 1

Number of floors below grade: 1 (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply): No AC

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

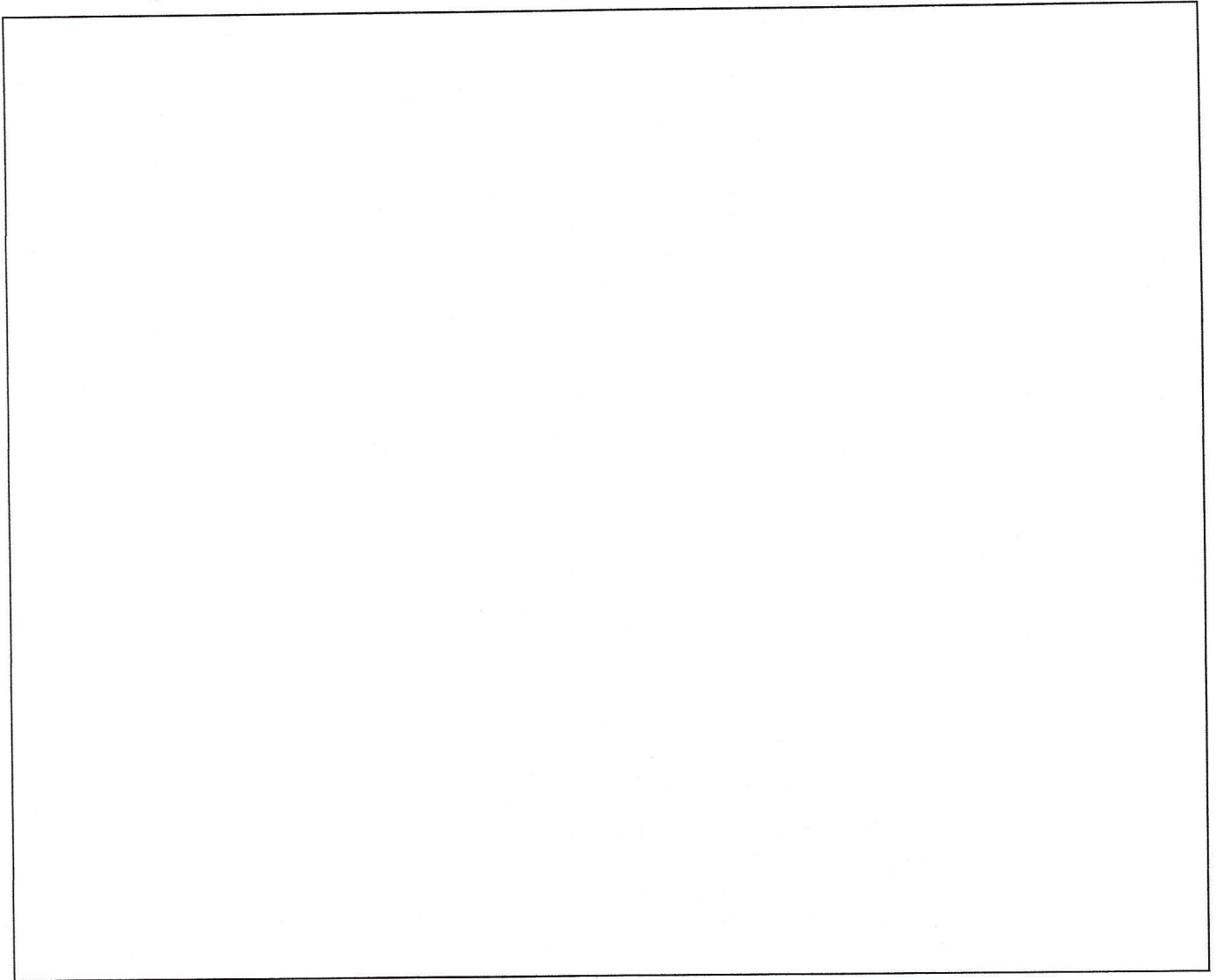
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

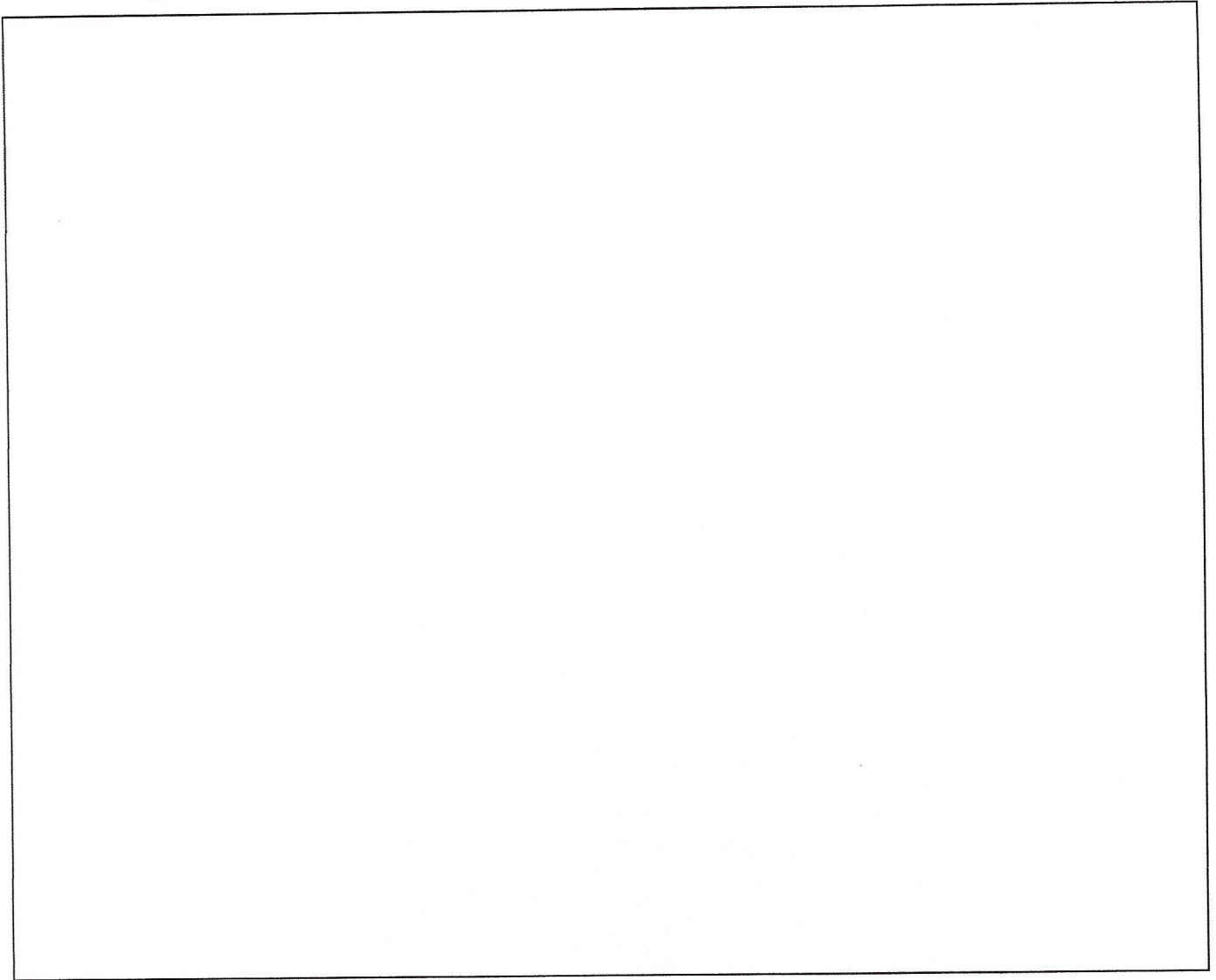
Provide Drawing of the lowest floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the lowest floor of a building. The box is currently blank.

Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box is currently blank.

Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	Lawn Mower in front Wood pile near basement steps
Kerosene storage cans	No
Paints / thinners / strippers	New Basement Steps
Cleaning solvents	No
Moth balls	Raid or similar
Insecticides	Raid or similar
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Oil + lubricants near basement steps

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:



Residential Inspection Form

Preparer's Name: T.M. Pounce

Date: 8/10/23

Site Address: 43 S Gray

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Tenants						

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: 1

Number of floors below grade: 1 (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: Same building construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply): No AC

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

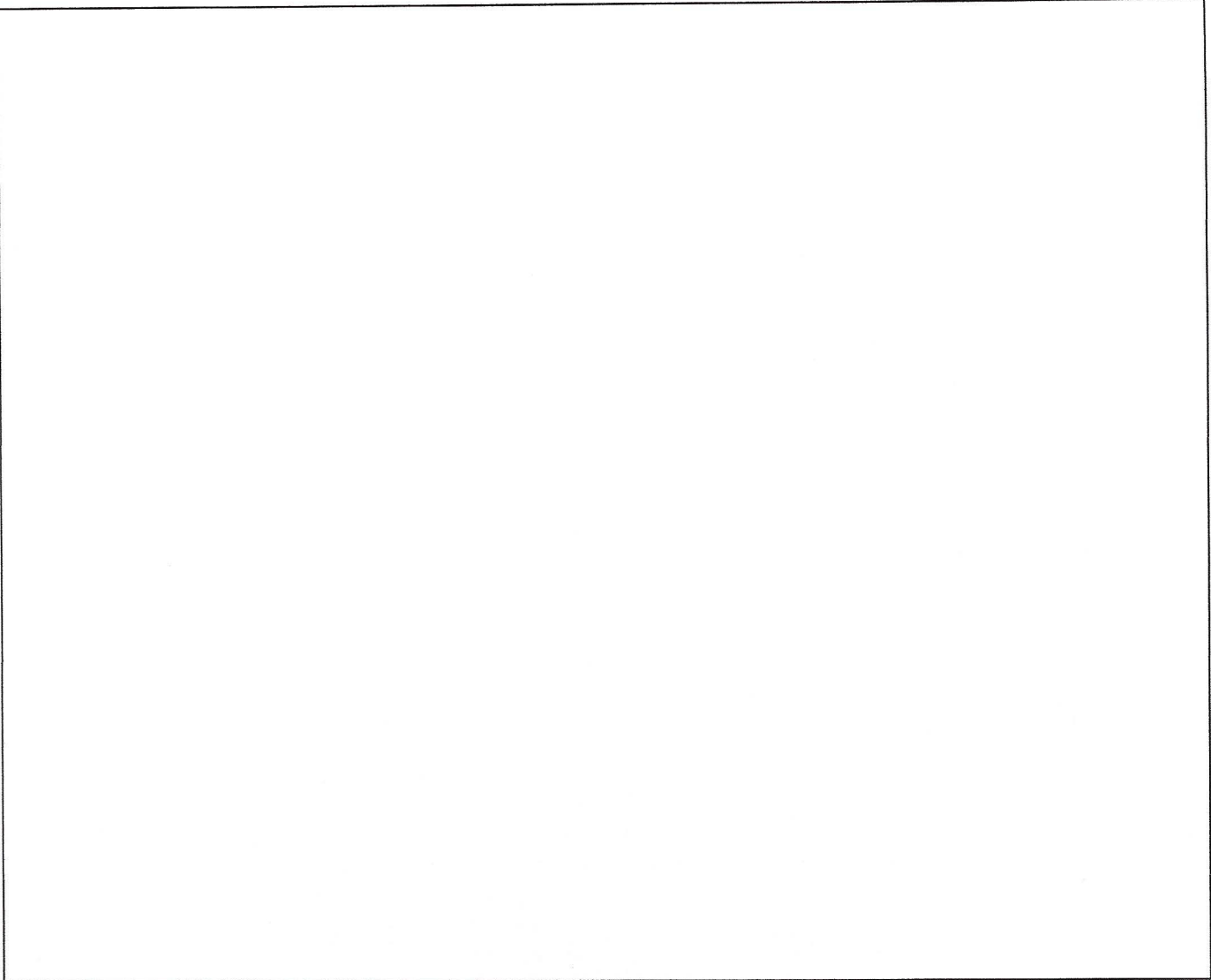
Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

Provide Drawing of the lowest floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the lowest floor of a building. The box is currently blank.

Provide Drawing of the main floor of the building



Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	Lawn mower - front area Wood Eater - Steps to basement
Kerosene storage cans	No
Paints / thinners / strippers	New Steps to basement
Cleaning solvents	Kitchen & bath
Moth balls	No
Insecticides	Raid type
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Oil + lubricants near steps to basement

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Windows open in some areas due to no A/C.



Residential Inspection Form

Preparer's Name: Tim Prange

Date: 1/30/23

Site Address: 3216 Moore

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Danny Clarke	3216 Moore		M	Unemployed		
Abonda Clarke	3216 Moore		F	Unemployed		

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: _____ ft Basement size: _____ ft²

Basement floor construction: concrete / soil / slab / stone /other (specify): _____

Describe further as appropriate: Same construction

Foundation walls: poured concrete / cinder blocks / stone / bricks /other (specify): _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt /other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- | | | | |
|--------------------------|---------------------|------------------|--------------------|
| hot air circulation | hot air radiation | wood stove | steam radiation |
| heat pump | hot water radiation | kerosene heater | electric baseboard |
| central air conditioning | fireplace | other (specify): | _____ |

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

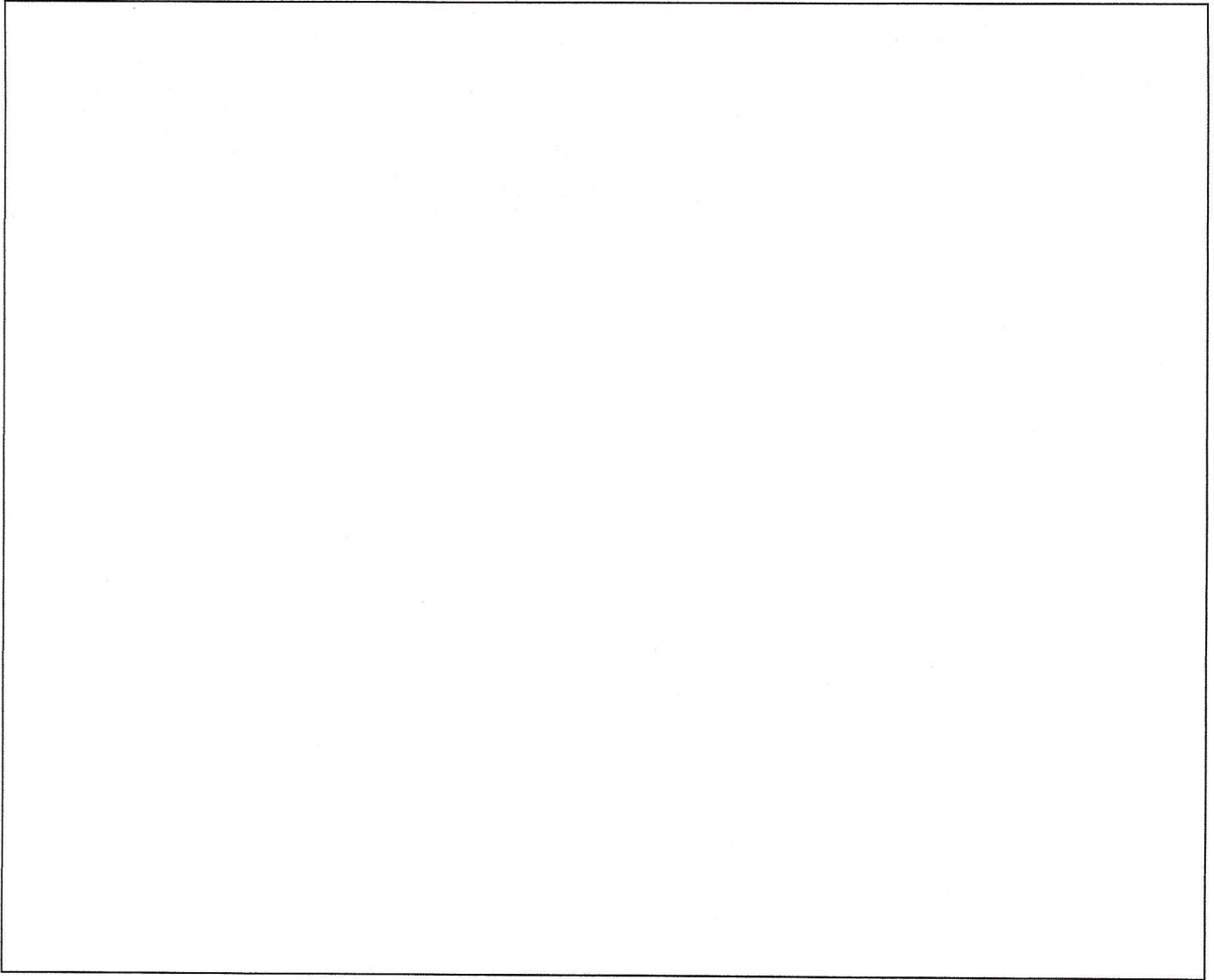
List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

Provide Drawing of the lowest floor of the building



Provide Drawing of the main floor of the building

A large, empty rectangular box with a thin black border, intended for a hand-drawn floor plan of the main floor of a building. The box occupies most of the page's width and a significant portion of its height.

Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Household
Cleaning solvents	Household
Moth balls	No
Insecticides	No
New furniture / upholstery	No
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Candles, hand soaps, sprays

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:



Residential Inspection Form

Preparer's Name: Tim Pranger

Date: 8/10/23

Site Address: 3216 Moore Ave.

Part I - Occupants

List of Current Occupants/Occupation (include children)

Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Danny Clarke	3216 Moore		M	unemployed		
Rhonda Clarke	3216 Moore		F	unemployed		

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: _____ Year constructed: _____

Number of floors at or above grade: _____

Number of floors below grade: _____ (full basement / crawl space / partial basement / partial crawlspace / slab on grade)

Depth of basement below grade surface: NA ft Basement size: NA ft²

Basement floor construction: concrete / soil / slab / stone / other (specify): NA

Describe further as appropriate: Small Entrance to crawl on east side of home

Foundation walls: poured concrete / cinder blocks / stone / bricks / other (specify): _____

NA Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Basement floor drains present? Yes / No Water in drain? Yes / No

Significant cracks present in basement floor? Yes / No Describe: _____

Significant cracks present in basement walls? Yes / No Describe: _____

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes / No / Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

- hot air circulation hot air radiation wood stove steam radiation
- heat pump hot water radiation kerosene heater electric baseboard
- central air conditioning fireplace other (specify): _____

Type of fuel utilized for heating system (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Type of fuel utilized for water heater:

Natural gas / electric

Backdrafting test conducted on non-electric appliances: Yes / No / Not Applicable

List appliances tested and observations: _____

Are utility penetrations present through basement walls, foundation walls and floors of houses with crawlspaces?

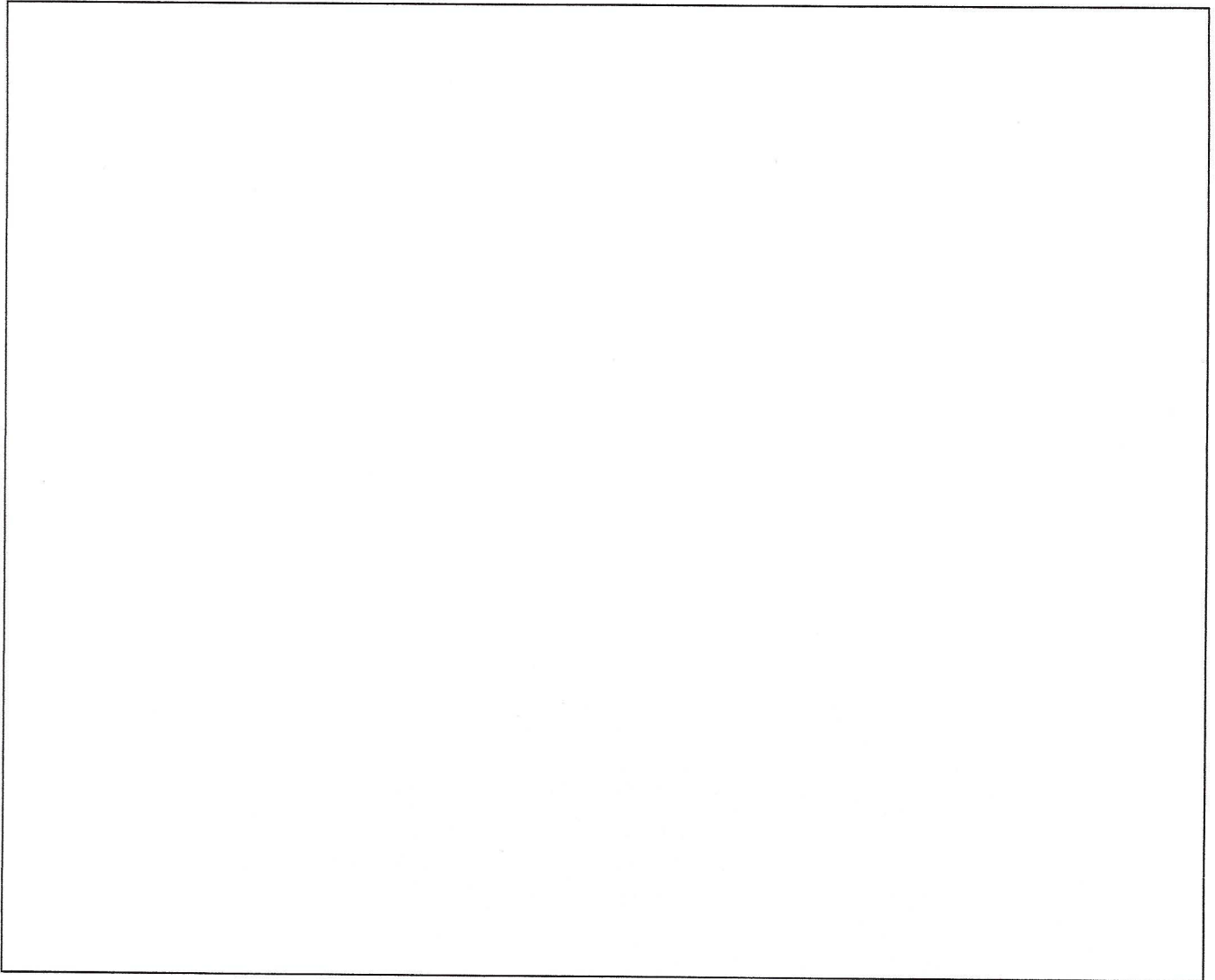
Yes / No Describe:

Describe any other potential vapor diffusion routes observed (e.g., old coal chutes through basement walls, etc.)

Provide Drawing of the lowest floor of the building

Same construction as previous inspections

Provide Drawing of the main floor of the building



Provide Drawing of the second floor of the building, if present

A large, empty rectangular box with a thin black border, intended for a drawing of the second floor of a building. The box is currently blank.

Part III - Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room) at the time of inspection.

1. Indoor Contaminant Sources

Potential Sources	Location (s)
Gasoline storage cans	No
Gas-powered equipment (mowers, etc.)	No
Kerosene storage cans	No
Paints / thinners / strippers	Household cleaners
Cleaning solvents	Household cleaners
Moth balls	No
Insecticides	No
New furniture / upholstery	No
New carpeting / flooring	No, wood flooring replaced early last year
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Candles, Elmer's Glue, Hand Soaps, Scented sprays,

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / No

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Other Observations:

Attachment B

Laboratory Reports

February 20, 2023

Michael Richardson
GHD Services
6520 Corporate Dr.
Indianapolis, IN 46278

RE: Project: 12584838-03
Pace Project No.: 10641966

Dear Michael Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Amberger, GHD
Matthew Groves, GHD Services
Jonathon Lang, GHD Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12584838-03

Pace Project No.: 10641966

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 12584838-03

Pace Project No.: 10641966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10641966001	IA-013123-TP-009	Air	01/31/23 12:41	02/06/23 12:37
10641966002	IA-013123-TP-010	Air	01/31/23 12:42	02/06/23 12:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12584838-03
Pace Project No.: 10641966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10641966001	IA-013123-TP-009	TO-15	MJL	63	PASI-M
10641966002	IA-013123-TP-010	TO-15	MJL	63	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 12584838-03

Pace Project No.: 10641966

Method: TO-15

Description: TO15 MSV AIR

Client: GHD Services_AIR

Date: February 20, 2023

General Information:

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 867360

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- IA-013123-TP-010 (Lab ID: 10641966002)
 - Carbon tetrachloride
- LCS (Lab ID: 4576606)
 - Carbon tetrachloride

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641966

Sample: IA-013123-TP-009 Lab ID: 10641966001 Collected: 01/31/23 12:41 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	31.5	ug/m3	8.8	3.3	1.46		02/14/23 19:43	67-64-1	
Benzene	3.1	ug/m3	0.47	0.16	1.46		02/14/23 19:43	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.46		02/14/23 19:43	100-44-7	
Bromodichloromethane	<0.47	ug/m3	2.0	0.47	1.46		02/14/23 19:43	75-27-4	
Bromoform	<1.1	ug/m3	7.7	1.1	1.46		02/14/23 19:43	75-25-2	
Bromomethane	<0.43	ug/m3	1.2	0.43	1.46		02/14/23 19:43	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.66	0.16	1.46		02/14/23 19:43	106-99-0	
2-Butanone (MEK)	3.5J	ug/m3	4.4	0.55	1.46		02/14/23 19:43	78-93-3	
Carbon disulfide	0.43J	ug/m3	0.92	0.34	1.46		02/14/23 19:43	75-15-0	
Carbon tetrachloride	<0.61	ug/m3	4.7	0.61	1.46		02/14/23 19:43	56-23-5	
Chlorobenzene	<0.20	ug/m3	1.4	0.20	1.46		02/14/23 19:43	108-90-7	
Chloroethane	<0.30	ug/m3	0.78	0.30	1.46		02/14/23 19:43	75-00-3	
Chloroform	0.20J	ug/m3	0.72	0.20	1.46		02/14/23 19:43	67-66-3	
Chloromethane	3.8	ug/m3	0.61	0.13	1.46		02/14/23 19:43	74-87-3	
Cyclohexane	<0.20	ug/m3	2.6	0.20	1.46		02/14/23 19:43	110-82-7	
Dibromochloromethane	<0.53	ug/m3	2.5	0.53	1.46		02/14/23 19:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.45	ug/m3	1.1	0.45	1.46		02/14/23 19:43	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	4.5	1.3	1.46		02/14/23 19:43	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:43	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:43	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.75	1.46		02/14/23 19:43	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.46		02/14/23 19:43	75-34-3	
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 19:43	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.46		02/14/23 19:43	75-35-4	
cis-1,2-Dichloroethene	0.47J	ug/m3	1.2	0.31	1.46		02/14/23 19:43	156-59-2	
trans-1,2-Dichloroethene	<0.61	ug/m3	1.2	0.61	1.46		02/14/23 19:43	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.46		02/14/23 19:43	78-87-5	
cis-1,3-Dichloropropene	<0.95	ug/m3	3.4	0.95	1.46		02/14/23 19:43	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.4	1.1	1.46		02/14/23 19:43	10061-02-6	
Dichlorotetrafluoroethane	<0.35	ug/m3	2.1	0.35	1.46		02/14/23 19:43	76-14-2	
Ethanol	199	ug/m3	2.8	1.3	1.46		02/14/23 19:43	64-17-5	
Ethyl acetate	124	ug/m3	1.1	0.23	1.46		02/14/23 19:43	141-78-6	
Ethylbenzene	1.0J	ug/m3	1.3	0.26	1.46		02/14/23 19:43	100-41-4	
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.46		02/14/23 19:43	622-96-8	
n-Heptane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 19:43	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.9	2.6	1.46		02/14/23 19:43	87-68-3	
n-Hexane	0.68J	ug/m3	1.0	0.34	1.46		02/14/23 19:43	110-54-3	
2-Hexanone	<1.0	ug/m3	6.1	1.0	1.46		02/14/23 19:43	591-78-6	
Isopropylbenzene (Cumene)	<0.85	ug/m3	3.6	0.85	1.46		02/14/23 19:43	98-82-8	
Methylene Chloride	0.28J	ug/m3	5.2	0.18	1.46		02/14/23 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.1	0.79	1.46		02/14/23 19:43	108-10-1	
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.46		02/14/23 19:43	1634-04-4	
Naphthalene	<3.1	ug/m3	3.9	3.1	1.46		02/14/23 19:43	91-20-3	
2-Propanol	16.7	ug/m3	3.6	1.4	1.46		02/14/23 19:43	67-63-0	
Propylene	9.0	ug/m3	1.3	0.52	1.46		02/14/23 19:43	115-07-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641966

Sample: IA-013123-TP-009 **Lab ID: 10641966001** Collected: 01/31/23 12:41 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	1.2J	ug/m3	1.3	0.61	1.46		02/14/23 19:43	100-42-5	
1,1,2,2-Tetrachloroethane	<0.42	ug/m3	2.0	0.42	1.46		02/14/23 19:43	79-34-5	
Tetrachloroethene	<0.36	ug/m3	1.0	0.36	1.46		02/14/23 19:43	127-18-4	
Tetrahydrofuran	<0.27	ug/m3	0.88	0.27	1.46		02/14/23 19:43	109-99-9	
THC as Gas	423	ug/m3	308	155	1.46		02/14/23 19:43		
Toluene	6.4	ug/m3	1.1	0.24	1.46		02/14/23 19:43	108-88-3	
1,2,4-Trichlorobenzene	<8.4	ug/m3	11.0	8.4	1.46		02/14/23 19:43	120-82-1	
1,1,1-Trichloroethane	0.28J	ug/m3	1.6	0.26	1.46		02/14/23 19:43	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.81	0.38	1.46		02/14/23 19:43	79-00-5	
Trichloroethene	<0.35	ug/m3	0.80	0.35	1.46		02/14/23 19:43	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.29	1.46		02/14/23 19:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.43J	ug/m3	2.3	0.33	1.46		02/14/23 19:43	76-13-1	
1,2,4-Trimethylbenzene	0.78J	ug/m3	1.5	0.51	1.46		02/14/23 19:43	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/m3	1.5	0.40	1.46		02/14/23 19:43	108-67-8	
Vinyl acetate	<0.26	ug/m3	1.0	0.26	1.46		02/14/23 19:43	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.38	0.14	1.46		02/14/23 19:43	75-01-4	
m&p-Xylene	3.1	ug/m3	2.6	0.72	1.46		02/14/23 19:43	179601-23-1	
o-Xylene	0.86J	ug/m3	1.3	0.26	1.46		02/14/23 19:43	95-47-6	

Sample: IA-013123-TP-010 **Lab ID: 10641966002** Collected: 01/31/23 12:42 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	10.6	ug/m3	8.7	3.2	1.44		02/14/23 20:18	67-64-1	
Benzene	0.58	ug/m3	0.47	0.16	1.44		02/14/23 20:18	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.44		02/14/23 20:18	100-44-7	
Bromodichloromethane	<0.46	ug/m3	2.0	0.46	1.44		02/14/23 20:18	75-27-4	
Bromoform	<1.1	ug/m3	7.6	1.1	1.44		02/14/23 20:18	75-25-2	
Bromomethane	<0.43	ug/m3	1.1	0.43	1.44		02/14/23 20:18	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.65	0.16	1.44		02/14/23 20:18	106-99-0	
2-Butanone (MEK)	0.98J	ug/m3	4.3	0.54	1.44		02/14/23 20:18	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.91	0.34	1.44		02/14/23 20:18	75-15-0	
Carbon tetrachloride	2.4J	ug/m3	4.6	0.60	1.44		02/14/23 20:18	56-23-5	SS
Chlorobenzene	<0.20	ug/m3	1.3	0.20	1.44		02/14/23 20:18	108-90-7	
Chloroethane	<0.30	ug/m3	0.77	0.30	1.44		02/14/23 20:18	75-00-3	
Chloroform	<0.19	ug/m3	0.71	0.19	1.44		02/14/23 20:18	67-66-3	
Chloromethane	0.93	ug/m3	0.60	0.13	1.44		02/14/23 20:18	74-87-3	
Cyclohexane	0.35J	ug/m3	2.5	0.19	1.44		02/14/23 20:18	110-82-7	
Dibromochloromethane	<0.52	ug/m3	2.5	0.52	1.44		02/14/23 20:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/m3	1.1	0.44	1.44		02/14/23 20:18	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 20:18	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641966

Sample: IA-013123-TP-010 **Lab ID: 10641966002** Collected: 01/31/23 12:42 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 20:18	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 20:18	106-46-7	
Dichlorodifluoromethane	2.4	ug/m3	1.5	0.74	1.44		02/14/23 20:18	75-71-8	
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.44		02/14/23 20:18	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.44		02/14/23 20:18	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		02/14/23 20:18	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.2	0.31	1.44		02/14/23 20:18	156-59-2	
trans-1,2-Dichloroethene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 20:18	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.44		02/14/23 20:18	78-87-5	
cis-1,3-Dichloropropene	<0.94	ug/m3	3.3	0.94	1.44		02/14/23 20:18	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.44		02/14/23 20:18	10061-02-6	
Dichlorotetrafluoroethane	<0.35	ug/m3	2.0	0.35	1.44		02/14/23 20:18	76-14-2	
Ethanol	32.4	ug/m3	2.8	1.3	1.44		02/14/23 20:18	64-17-5	
Ethyl acetate	2.6	ug/m3	1.1	0.23	1.44		02/14/23 20:18	141-78-6	
Ethylbenzene	0.29J	ug/m3	1.3	0.26	1.44		02/14/23 20:18	100-41-4	
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.44		02/14/23 20:18	622-96-8	
n-Heptane	0.74J	ug/m3	1.2	0.19	1.44		02/14/23 20:18	142-82-5	
Hexachloro-1,3-butadiene	<2.5	ug/m3	7.8	2.5	1.44		02/14/23 20:18	87-68-3	
n-Hexane	0.77J	ug/m3	1.0	0.33	1.44		02/14/23 20:18	110-54-3	
2-Hexanone	<0.99	ug/m3	6.0	0.99	1.44		02/14/23 20:18	591-78-6	
Isopropylbenzene (Cumene)	<0.84	ug/m3	3.6	0.84	1.44		02/14/23 20:18	98-82-8	
Methylene Chloride	1.1J	ug/m3	5.1	0.18	1.44		02/14/23 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.0	0.77	1.44		02/14/23 20:18	108-10-1	
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.44		02/14/23 20:18	1634-04-4	
Naphthalene	<3.0	ug/m3	3.8	3.0	1.44		02/14/23 20:18	91-20-3	
2-Propanol	5.7	ug/m3	3.6	1.4	1.44		02/14/23 20:18	67-63-0	
Propylene	<0.51	ug/m3	1.3	0.51	1.44		02/14/23 20:18	115-07-1	
Styrene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 20:18	100-42-5	
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	2.0	0.41	1.44		02/14/23 20:18	79-34-5	
Tetrachloroethene	<0.36	ug/m3	0.99	0.36	1.44		02/14/23 20:18	127-18-4	
Tetrahydrofuran	<0.27	ug/m3	0.86	0.27	1.44		02/14/23 20:18	109-99-9	
THC as Gas	<153	ug/m3	304	153	1.44		02/14/23 20:18		
Toluene	1.2	ug/m3	1.1	0.23	1.44		02/14/23 20:18	108-88-3	
1,2,4-Trichlorobenzene	<8.3	ug/m3	10.9	8.3	1.44		02/14/23 20:18	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/m3	1.6	0.26	1.44		02/14/23 20:18	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.80	0.37	1.44		02/14/23 20:18	79-00-5	
Trichloroethene	<0.34	ug/m3	0.79	0.34	1.44		02/14/23 20:18	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.6	0.29	1.44		02/14/23 20:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.50J	ug/m3	2.2	0.33	1.44		02/14/23 20:18	76-13-1	
1,2,4-Trimethylbenzene	<0.50	ug/m3	1.4	0.50	1.44		02/14/23 20:18	95-63-6	
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.44		02/14/23 20:18	108-67-8	
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.44		02/14/23 20:18	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.44		02/14/23 20:18	75-01-4	
m&p-Xylene	1.1J	ug/m3	2.5	0.71	1.44		02/14/23 20:18	179601-23-1	
o-Xylene	0.33J	ug/m3	1.3	0.26	1.44		02/14/23 20:18	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

QC Batch: 867360

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641966001, 10641966002

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641966001, 10641966002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	0.18	02/14/23 10:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	0.29	02/14/23 10:28	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	0.26	02/14/23 10:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	0.23	02/14/23 10:28	
1,1-Dichloroethane	ug/m3	<0.11	0.82	0.11	02/14/23 10:28	
1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	0.35	02/14/23 10:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,2-Dichloroethane	ug/m3	<0.13	0.82	0.13	02/14/23 10:28	
1,2-Dichloropropane	ug/m3	<0.20	0.94	0.20	02/14/23 10:28	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	0.82	02/14/23 10:28	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	02/14/23 10:28	
2-Butanone (MEK)	ug/m3	<0.38	3.0	0.38	02/14/23 10:28	
2-Hexanone	ug/m3	<0.69	4.2	0.69	02/14/23 10:28	
2-Propanol	ug/m3	<0.96	2.5	0.96	02/14/23 10:28	
4-Ethyltoluene	ug/m3	<0.41	2.5	0.41	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	0.54	02/14/23 10:28	
Acetone	ug/m3	<2.2	6.0	2.2	02/14/23 10:28	
Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Benzyl chloride	ug/m3	<0.77	2.6	0.77	02/14/23 10:28	
Bromodichloromethane	ug/m3	<0.32	1.4	0.32	02/14/23 10:28	
Bromoform	ug/m3	<0.78	5.2	0.78	02/14/23 10:28	
Bromomethane	ug/m3	<0.30	0.79	0.30	02/14/23 10:28	
Carbon disulfide	ug/m3	<0.23	0.63	0.23	02/14/23 10:28	
Carbon tetrachloride	ug/m3	<0.42	3.2	0.42	02/14/23 10:28	
Chlorobenzene	ug/m3	<0.14	0.94	0.14	02/14/23 10:28	
Chloroethane	ug/m3	<0.20	0.54	0.20	02/14/23 10:28	
Chloroform	ug/m3	<0.13	0.50	0.13	02/14/23 10:28	
Chloromethane	ug/m3	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	0.21	02/14/23 10:28	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	0.65	02/14/23 10:28	
Cyclohexane	ug/m3	<0.13	1.8	0.13	02/14/23 10:28	
Dibromochloromethane	ug/m3	<0.36	1.7	0.36	02/14/23 10:28	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	0.51	02/14/23 10:28	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	0.24	02/14/23 10:28	
Ethanol	ug/m3	<0.90	1.9	0.90	02/14/23 10:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641966001, 10641966002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.16	0.73	0.16	02/14/23 10:28	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	1.8	02/14/23 10:28	
Isopropylbenzene (Cumene)	ug/m3	<0.58	2.5	0.58	02/14/23 10:28	
m&p-Xylene	ug/m3	<0.49	1.8	0.49	02/14/23 10:28	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	0.25	02/14/23 10:28	
Methylene Chloride	ug/m3	<0.12	3.5	0.12	02/14/23 10:28	
n-Heptane	ug/m3	0.13J	0.83	0.13	02/14/23 10:28	
n-Hexane	ug/m3	<0.23	0.72	0.23	02/14/23 10:28	
Naphthalene	ug/m3	<2.1	2.7	2.1	02/14/23 10:28	
o-Xylene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Propylene	ug/m3	<0.36	0.88	0.36	02/14/23 10:28	
Styrene	ug/m3	<0.42	0.87	0.42	02/14/23 10:28	
Tetrachloroethene	ug/m3	<0.25	0.69	0.25	02/14/23 10:28	
Tetrahydrofuran	ug/m3	<0.19	0.60	0.19	02/14/23 10:28	
THC as Gas	ug/m3	<106	211	106	02/14/23 10:28	
Toluene	ug/m3	<0.16	0.77	0.16	02/14/23 10:28	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	0.42	02/14/23 10:28	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Trichloroethene	ug/m3	<0.24	0.55	0.24	02/14/23 10:28	
Trichlorofluoromethane	ug/m3	<0.20	1.1	0.20	02/14/23 10:28	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	02/14/23 10:28	
Vinyl chloride	ug/m3	<0.096	0.26	0.096	02/14/23 10:28	

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	51.8	89	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1,1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1,1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
1,2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
1,2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
1,3-Butadiene	ug/m3	23.9	20.7	86	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
2-Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
4-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
Acetone	ug/m3	127	103	81	65-131	
Benzene	ug/m3	33.8	30.6	91	70-130	
Benzyl chloride	ug/m3	55.6	55.0	99	70-130	
Bromodichloromethane	ug/m3	71.5	68.0	95	70-132	
Bromoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
Carbon disulfide	ug/m3	33	30.2	92	70-131	
Carbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
Chlorobenzene	ug/m3	49	48.3	99	70-133	
Chloroethane	ug/m3	28.1	21.3	76	64-140	
Chloroform	ug/m3	52.1	46.9	90	70-133	
Chloromethane	ug/m3	22	18.7	85	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Cyclohexane	ug/m3	36.4	30.8	85	70-134	
Dibromochloromethane	ug/m3	90.6	91.7	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
Ethanol	ug/m3	113	87.9	78	65-130	
Ethyl acetate	ug/m3	38.4	39.0	101	70-134	
Ethylbenzene	ug/m3	46.2	42.9	93	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
m&p-Xylene	ug/m3	92.4	82.1	89	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
n-Heptane	ug/m3	43.5	35.0	81	69-140	
n-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	40.8	89	70-132	
Propylene	ug/m3	18.6	15.0	81	69-130	
Styrene	ug/m3	45.3	48.4	107	70-136	
Tetrachloroethene	ug/m3	72	69.2	96	70-139	
Tetrahydrofuran	ug/m3	31.3	26.8	85	70-139	
THC as Gas	ug/m3	5050	5700	113	70-136	
Toluene	ug/m3	40.2	36.1	90	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
Trichloroethene	ug/m3	57.2	56.8	99	70-132	
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
Vinyl acetate	ug/m3	38.7	40.9	106	70-131	
Vinyl chloride	ug/m3	27.2	23.8	87	64-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.44J	0.42J		25	
1,1-Dichloroethane	ug/m3	<0.16	<0.16		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5		25	
1,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46		25	
1,2-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
1,2-Dichloroethane	ug/m3	<0.19	<0.19		25	
1,2-Dichloropropane	ug/m3	<0.30	<0.30		25	
1,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41		25	
1,3-Butadiene	ug/m3	<0.17	<0.17		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
2-Butanone (MEK)	ug/m3	2.7J	2.6J		25	
2-Hexanone	ug/m3	<1.0	<1.0		25	
2-Propanol	ug/m3	13.9	12.9	8	25	
4-Ethyltoluene	ug/m3	<0.61	<0.61		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80		25	
Acetone	ug/m3	13.2	12.5	6	25	
Benzene	ug/m3	2.0	2.0	4	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	0.60J	0.55J		25	
Bromoform	ug/m3	<1.2	<1.2		25	
Bromomethane	ug/m3	<0.44	<0.44		25	
Carbon disulfide	ug/m3	<0.35	<0.35		25	
Carbon tetrachloride	ug/m3	2.7J	2.6J		25	
Chlorobenzene	ug/m3	<0.21	<0.21		25	
Chloroethane	ug/m3	<0.31	<0.31		25	
Chloroform	ug/m3	1.5	1.4	7	25	
Chloromethane	ug/m3	2.1	2.0	8	25	
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	<0.97	<0.97		25	
Cyclohexane	ug/m3	<0.20	<0.20		25	
Dibromochloromethane	ug/m3	<0.54	<0.54		25	
Dichlorodifluoromethane	ug/m3	1.8	1.6	11	25	
Dichlorotetrafluoroethane	ug/m3	<0.36	<0.36		25	
Ethanol	ug/m3	132	127	4	25	
Ethyl acetate	ug/m3	2.6	2.4	6	25	
Ethylbenzene	ug/m3	0.68J	0.67J		25	
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6		25	
Isopropylbenzene (Cumene)	ug/m3	<0.87	<0.87		25	
m&p-Xylene	ug/m3	2.5J	2.4J		25	
Methyl-tert-butyl ether	ug/m3	<0.37	<0.37		25	
Methylene Chloride	ug/m3	0.40J	0.37J		25	

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ug/m3	0.82J	0.83J		25	
n-Hexane	ug/m3	0.61J	0.59J		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.68J	0.68J		25	
Propylene	ug/m3	5.9	5.5	8	25	
Styrene	ug/m3	0.77J	0.73J		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Tetrahydrofuran	ug/m3	1.1	1.1	7	25	
THC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<1.2	<1.2		25	
Trichloroethene	ug/m3	6.1	5.7	7	25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.26	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.38J	0.44J		25	
1,1-Dichloroethane	ug/m3	<0.15	<0.15		25	
1,1-Dichloroethene	ug/m3	<0.23	<0.23		25	
1,2,4-Trichlorobenzene	ug/m3	<8.1	<8.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.49	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44		25	
1,2-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,2-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,2-Dichloropropane	ug/m3	<0.28	<0.28		25	
1,3,5-Trimethylbenzene	ug/m3	<0.39	<0.39		25	
1,3-Butadiene	ug/m3	<0.16	<0.16		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<0.97	<0.97		25	
2-Propanol	ug/m3	69.4	71.8	3	25	
4-Ethyltoluene	ug/m3	<0.57	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.76	<0.76		25	
Acetone	ug/m3	18.8	19.4	3	25	
Benzene	ug/m3	0.56	0.55	2	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	<0.45	<0.45		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641966

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/m3	<1.1	<1.1		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.59	<0.59		25	
Chlorobenzene	ug/m3	<0.20	<0.20		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	0.33J	0.34J		25	
Chloromethane	ug/m3	0.64	0.67	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.92	<0.92		25	
Cyclohexane	ug/m3	<0.19	<0.19		25	
Dibromochloromethane	ug/m3	<0.51	<0.51		25	
Dichlorodifluoromethane	ug/m3	1.5	1.7	10	25	
Dichlorotetrafluoroethane	ug/m3	<0.34	<0.34		25	
Ethanol	ug/m3	17.1	16.8	2	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
Isopropylbenzene (Cumene)	ug/m3	<0.82	<0.82		25	
m&p-Xylene	ug/m3	<0.69	<0.69		25	
Methyl-tert-butyl ether	ug/m3	<0.35	<0.35		25	
Methylene Chloride	ug/m3	0.21J	0.23J		25	
n-Heptane	ug/m3	0.27J	0.26J		25	
n-Hexane	ug/m3	<0.33	<0.33		25	
Naphthalene	ug/m3	<2.9	<2.9		25	
o-Xylene	ug/m3	<0.25	<0.25		25	
Propylene	ug/m3	0.99J	1.1J		25	
Styrene	ug/m3	<0.59	<0.59		25	
Tetrachloroethene	ug/m3	<0.35	<0.35		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
THC as Gas	ug/m3	<149	<149		25	
Toluene	ug/m3	1.3	1.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.59	<0.59		25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 12584838-03

Pace Project No.: 10641966

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03
Pace Project No.: 10641966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10641966001	IA-013123-TP-009	TO-15	867360		
10641966002	IA-013123-TP-010	TO-15	867360		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>GTH</u> Address: <u>6520 Corporate Ave</u> <u>Ind. Camp Co</u> Email To: _____ Phone: _____ Fax: _____ Requested Due Date/TAT: <u>5/2/2023</u>		Section B Required Project Information: Report To: <u>Mike Richardson</u> Copy To: <u>Kyle Amburger</u> Purchase Order No.: _____ Project Name: _____ Project Number: <u>12554838-03</u>		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____		Page: <u>1</u> of <u>1</u>																					
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		PID Reading (Client only) MEDIA CODE <u>644</u> <u>644</u>		COLLECTED <table border="1"> <thead> <tr> <th rowspan="2">COMPOSITE START END/GRAB</th> <th colspan="2">COMPOSITE</th> </tr> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td>1/30/23</td> <td>12:11</td> </tr> <tr> <td></td> <td>1/30/23</td> <td>12:33</td> </tr> <tr> <td></td> <td>1/30/23</td> <td>12:42</td> </tr> <tr> <td></td> <td>1/30/23</td> <td>12:55</td> </tr> <tr> <td></td> <td>1/30/23</td> <td>12:55</td> </tr> </tbody> </table>		COMPOSITE START END/GRAB	COMPOSITE		DATE	TIME		1/30/23	12:11		1/30/23	12:33		1/30/23	12:42		1/30/23	12:55		1/30/23	12:55
COMPOSITE START END/GRAB	COMPOSITE																										
	DATE	TIME																									
	1/30/23	12:11																									
	1/30/23	12:33																									
	1/30/23	12:42																									
	1/30/23	12:55																									
	1/30/23	12:55																									
ITEM #	Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																			
1		08251885	-29	-2	Mark A. Pace	2/10/23	12:37	Temp in °C Received on Ice Sealed Cooler Samples Intact																			
2		08401420	-30	-3																							
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

WO# : 10641966

10641966

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Kimberly C. Panyon
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 2/7/2023



DC#_ Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon Receipt

Client Name: GHD

Project #: _____

WO#: 10641966

PM: CT1 Due Date: 02/20/23

CLIENT: CRA_INDY

Courier: FedEx UPS USPS Client Pace Speedee Commercial

Tracking Number: _____ See Exception

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____

Date & Initials of Person Examining Contents: 2-7-23 MI

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		9.
(Tedlar bags not acceptable container for TO-15 or APH)			
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10.
(visual inspection/no leaks when pressurized)			
Media: <u>Air Can</u> Airbag			11. Individually Certified Cans? Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		12.
Do cans need to be pressurized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		13.
(DO NOT PRESSURIZE 3C or ASTM 1946!!!)			

Gauge #: 10AIR26 10AIR34 10AIR35 10AIR17 10AIR47 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
009	825	1885	-2.5	+5					
010	840	1420	-2	+5					

CLIENT NOTIFICATION/RESOLUTION
Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 2/8/23

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

February 20, 2023

Michael Richardson
GHD Services
6520 Corporate Dr.
Indianapolis, IN 46278

RE: Project: 12584838-03 CMW
Pace Project No.: 10641964

Dear Michael Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Amberger, GHD
Matthew Groves, GHD Services
Jonathon Lang, GHD Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 12584838-03 CMW

Pace Project No.: 10641964

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10641964001	IA-013123-TP-001	Air	01/31/23 09:53	02/06/23 12:37
10641964002	IA-013123-TP-002	Air	01/31/23 09:52	02/06/23 12:37
10641964003	AA-013123-TP-003	Air	01/31/23 10:31	02/06/23 12:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12584838-03 CMW
Pace Project No.: 10641964

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10641964001	IA-013123-TP-001	TO-15	MJL	63	PASI-M
10641964002	IA-013123-TP-002	TO-15	MJL	63	PASI-M
10641964003	AA-013123-TP-003	TO-15	MJL	63	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 12584838-03 CMW

Pace Project No.: 10641964

Method: TO-15

Description: TO15 MSV AIR

Client: GHD Services_AIR

Date: February 20, 2023

General Information:

3 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 867360

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- AA-013123-TP-003 (Lab ID: 10641964003)
 - Carbon tetrachloride
- IA-013123-TP-001 (Lab ID: 10641964001)
 - Carbon tetrachloride
- LCS (Lab ID: 4576606)
 - Carbon tetrachloride

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Sample: IA-013123-TP-001 Lab ID: 10641964001 Collected: 01/31/23 09:53 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	13.2	ug/m3	9.0	3.3	1.49		02/14/23 13:54	67-64-1	
Benzene	2.0	ug/m3	0.48	0.16	1.49		02/14/23 13:54	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.9	1.1	1.49		02/14/23 13:54	100-44-7	
Bromodichloromethane	0.60J	ug/m3	2.0	0.48	1.49		02/14/23 13:54	75-27-4	
Bromoform	<1.2	ug/m3	7.8	1.2	1.49		02/14/23 13:54	75-25-2	
Bromomethane	<0.44	ug/m3	1.2	0.44	1.49		02/14/23 13:54	74-83-9	
1,3-Butadiene	<0.17	ug/m3	0.67	0.17	1.49		02/14/23 13:54	106-99-0	
2-Butanone (MEK)	2.7J	ug/m3	4.5	0.56	1.49		02/14/23 13:54	78-93-3	
Carbon disulfide	<0.35	ug/m3	0.94	0.35	1.49		02/14/23 13:54	75-15-0	
Carbon tetrachloride	2.7J	ug/m3	4.8	0.62	1.49		02/14/23 13:54	56-23-5	SS
Chlorobenzene	<0.21	ug/m3	1.4	0.21	1.49		02/14/23 13:54	108-90-7	
Chloroethane	<0.31	ug/m3	0.80	0.31	1.49		02/14/23 13:54	75-00-3	
Chloroform	1.5	ug/m3	0.74	0.20	1.49		02/14/23 13:54	67-66-3	
Chloromethane	2.1	ug/m3	0.63	0.13	1.49		02/14/23 13:54	74-87-3	
Cyclohexane	<0.20	ug/m3	2.6	0.20	1.49		02/14/23 13:54	110-82-7	
Dibromochloromethane	<0.54	ug/m3	2.6	0.54	1.49		02/14/23 13:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.46	ug/m3	1.2	0.46	1.49		02/14/23 13:54	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	4.6	1.3	1.49		02/14/23 13:54	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/m3	4.6	1.2	1.49		02/14/23 13:54	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.6	1.2	1.49		02/14/23 13:54	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	0.76	1.49		02/14/23 13:54	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.49		02/14/23 13:54	75-34-3	
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.49		02/14/23 13:54	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.49		02/14/23 13:54	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.49		02/14/23 13:54	156-59-2	
trans-1,2-Dichloroethene	<0.62	ug/m3	1.2	0.62	1.49		02/14/23 13:54	156-60-5	
1,2-Dichloropropane	<0.30	ug/m3	1.4	0.30	1.49		02/14/23 13:54	78-87-5	
cis-1,3-Dichloropropene	<0.97	ug/m3	3.4	0.97	1.49		02/14/23 13:54	10061-01-5	
trans-1,3-Dichloropropene	<1.2	ug/m3	3.4	1.2	1.49		02/14/23 13:54	10061-02-6	
Dichlorotetrafluoroethane	<0.36	ug/m3	2.1	0.36	1.49		02/14/23 13:54	76-14-2	
Ethanol	132	ug/m3	2.9	1.3	1.49		02/14/23 13:54	64-17-5	
Ethyl acetate	2.6	ug/m3	1.1	0.24	1.49		02/14/23 13:54	141-78-6	
Ethylbenzene	0.68J	ug/m3	1.3	0.27	1.49		02/14/23 13:54	100-41-4	
4-Ethyltoluene	<0.61	ug/m3	3.7	0.61	1.49		02/14/23 13:54	622-96-8	
n-Heptane	0.82J	ug/m3	1.2	0.19	1.49		02/14/23 13:54	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	8.1	2.6	1.49		02/14/23 13:54	87-68-3	
n-Hexane	0.61J	ug/m3	1.1	0.35	1.49		02/14/23 13:54	110-54-3	
2-Hexanone	<1.0	ug/m3	6.2	1.0	1.49		02/14/23 13:54	591-78-6	
Isopropylbenzene (Cumene)	<0.87	ug/m3	3.7	0.87	1.49		02/14/23 13:54	98-82-8	
Methylene Chloride	0.40J	ug/m3	5.3	0.19	1.49		02/14/23 13:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.2	0.80	1.49		02/14/23 13:54	108-10-1	
Methyl-tert-butyl ether	<0.37	ug/m3	5.5	0.37	1.49		02/14/23 13:54	1634-04-4	
Naphthalene	<3.1	ug/m3	4.0	3.1	1.49		02/14/23 13:54	91-20-3	
2-Propanol	13.9	ug/m3	3.7	1.4	1.49		02/14/23 13:54	67-63-0	
Propylene	5.9	ug/m3	1.3	0.53	1.49		02/14/23 13:54	115-07-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Sample: IA-013123-TP-001 **Lab ID: 10641964001** Collected: 01/31/23 09:53 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	0.77J	ug/m3	1.3	0.62	1.49		02/14/23 13:54	100-42-5	
1,1,2,2-Tetrachloroethane	<0.43	ug/m3	2.1	0.43	1.49		02/14/23 13:54	79-34-5	
Tetrachloroethene	<0.37	ug/m3	1.0	0.37	1.49		02/14/23 13:54	127-18-4	
Tetrahydrofuran	1.1	ug/m3	0.89	0.28	1.49		02/14/23 13:54	109-99-9	
THC as Gas	159J	ug/m3	314	158	1.49		02/14/23 13:54		
Toluene	5.8	ug/m3	1.1	0.24	1.49		02/14/23 13:54	108-88-3	
1,2,4-Trichlorobenzene	<8.5	ug/m3	11.2	8.5	1.49		02/14/23 13:54	120-82-1	
1,1,1-Trichloroethane	<0.27	ug/m3	1.7	0.27	1.49		02/14/23 13:54	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.83	0.38	1.49		02/14/23 13:54	79-00-5	
Trichloroethene	6.1	ug/m3	0.81	0.36	1.49		02/14/23 13:54	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.7	0.30	1.49		02/14/23 13:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.3	0.34	1.49		02/14/23 13:54	76-13-1	
1,2,4-Trimethylbenzene	0.60J	ug/m3	1.5	0.52	1.49		02/14/23 13:54	95-63-6	
1,3,5-Trimethylbenzene	<0.41	ug/m3	1.5	0.41	1.49		02/14/23 13:54	108-67-8	
Vinyl acetate	<0.26	ug/m3	1.1	0.26	1.49		02/14/23 13:54	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.39	0.14	1.49		02/14/23 13:54	75-01-4	
m&p-Xylene	2.5J	ug/m3	2.6	0.73	1.49		02/14/23 13:54	179601-23-1	
o-Xylene	0.68J	ug/m3	1.3	0.27	1.49		02/14/23 13:54	95-47-6	

Sample: IA-013123-TP-002 **Lab ID: 10641964002** Collected: 01/31/23 09:52 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	18.8	ug/m3	8.5	3.1	1.41		02/14/23 15:03	67-64-1	
Benzene	0.56	ug/m3	0.46	0.16	1.41		02/14/23 15:03	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.7	1.1	1.41		02/14/23 15:03	100-44-7	
Bromodichloromethane	<0.45	ug/m3	1.9	0.45	1.41		02/14/23 15:03	75-27-4	
Bromoform	<1.1	ug/m3	7.4	1.1	1.41		02/14/23 15:03	75-25-2	
Bromomethane	<0.42	ug/m3	1.1	0.42	1.41		02/14/23 15:03	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.63	0.16	1.41		02/14/23 15:03	106-99-0	
2-Butanone (MEK)	<0.53	ug/m3	4.2	0.53	1.41		02/14/23 15:03	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.89	0.33	1.41		02/14/23 15:03	75-15-0	
Carbon tetrachloride	<0.59	ug/m3	4.5	0.59	1.41		02/14/23 15:03	56-23-5	
Chlorobenzene	<0.20	ug/m3	1.3	0.20	1.41		02/14/23 15:03	108-90-7	
Chloroethane	<0.29	ug/m3	0.76	0.29	1.41		02/14/23 15:03	75-00-3	
Chloroform	0.33J	ug/m3	0.70	0.19	1.41		02/14/23 15:03	67-66-3	
Chloromethane	0.64	ug/m3	0.59	0.12	1.41		02/14/23 15:03	74-87-3	
Cyclohexane	<0.19	ug/m3	2.5	0.19	1.41		02/14/23 15:03	110-82-7	
Dibromochloromethane	<0.51	ug/m3	2.4	0.51	1.41		02/14/23 15:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/m3	1.1	0.44	1.41		02/14/23 15:03	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.41		02/14/23 15:03	95-50-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Sample: IA-013123-TP-002 **Lab ID: 10641964002** Collected: 01/31/23 09:52 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.41		02/14/23 15:03	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.41		02/14/23 15:03	106-46-7	
Dichlorodifluoromethane	1.5	ug/m3	1.4	0.72	1.41		02/14/23 15:03	75-71-8	
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.41		02/14/23 15:03	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.41		02/14/23 15:03	107-06-2	
1,1-Dichloroethene	<0.23	ug/m3	1.1	0.23	1.41		02/14/23 15:03	75-35-4	
cis-1,2-Dichloroethene	<0.30	ug/m3	1.1	0.30	1.41		02/14/23 15:03	156-59-2	
trans-1,2-Dichloroethene	<0.59	ug/m3	1.1	0.59	1.41		02/14/23 15:03	156-60-5	
1,2-Dichloropropane	<0.28	ug/m3	1.3	0.28	1.41		02/14/23 15:03	78-87-5	
cis-1,3-Dichloropropene	<0.92	ug/m3	3.3	0.92	1.41		02/14/23 15:03	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.41		02/14/23 15:03	10061-02-6	
Dichlorotetrafluoroethane	<0.34	ug/m3	2.0	0.34	1.41		02/14/23 15:03	76-14-2	
Ethanol	17.1	ug/m3	2.7	1.3	1.41		02/14/23 15:03	64-17-5	
Ethyl acetate	<0.23	ug/m3	1.0	0.23	1.41		02/14/23 15:03	141-78-6	
Ethylbenzene	<0.25	ug/m3	1.2	0.25	1.41		02/14/23 15:03	100-41-4	
4-Ethyltoluene	<0.57	ug/m3	3.5	0.57	1.41		02/14/23 15:03	622-96-8	
n-Heptane	0.27J	ug/m3	1.2	0.18	1.41		02/14/23 15:03	142-82-5	
Hexachloro-1,3-butadiene	<2.5	ug/m3	7.6	2.5	1.41		02/14/23 15:03	87-68-3	
n-Hexane	<0.33	ug/m3	1.0	0.33	1.41		02/14/23 15:03	110-54-3	
2-Hexanone	<0.97	ug/m3	5.9	0.97	1.41		02/14/23 15:03	591-78-6	
Isopropylbenzene (Cumene)	<0.82	ug/m3	3.5	0.82	1.41		02/14/23 15:03	98-82-8	
Methylene Chloride	0.21J	ug/m3	5.0	0.18	1.41		02/14/23 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.76	ug/m3	5.9	0.76	1.41		02/14/23 15:03	108-10-1	
Methyl-tert-butyl ether	<0.35	ug/m3	5.2	0.35	1.41		02/14/23 15:03	1634-04-4	
Naphthalene	<2.9	ug/m3	3.8	2.9	1.41		02/14/23 15:03	91-20-3	
2-Propanol	69.4	ug/m3	3.5	1.4	1.41		02/14/23 15:03	67-63-0	
Propylene	0.99J	ug/m3	1.2	0.50	1.41		02/14/23 15:03	115-07-1	
Styrene	<0.59	ug/m3	1.2	0.59	1.41		02/14/23 15:03	100-42-5	
1,1,2,2-Tetrachloroethane	<0.40	ug/m3	2.0	0.40	1.41		02/14/23 15:03	79-34-5	
Tetrachloroethene	<0.35	ug/m3	0.97	0.35	1.41		02/14/23 15:03	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.85	0.26	1.41		02/14/23 15:03	109-99-9	
THC as Gas	<149	ug/m3	298	149	1.41		02/14/23 15:03		
Toluene	1.3	ug/m3	1.1	0.23	1.41		02/14/23 15:03	108-88-3	
1,2,4-Trichlorobenzene	<8.1	ug/m3	10.6	8.1	1.41		02/14/23 15:03	120-82-1	
1,1,1-Trichloroethane	<0.26	ug/m3	1.6	0.26	1.41		02/14/23 15:03	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.78	0.36	1.41		02/14/23 15:03	79-00-5	
Trichloroethene	3.7	ug/m3	0.77	0.34	1.41		02/14/23 15:03	79-01-6	
Trichlorofluoromethane	0.98J	ug/m3	1.6	0.28	1.41		02/14/23 15:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.38J	ug/m3	2.2	0.32	1.41		02/14/23 15:03	76-13-1	
1,2,4-Trimethylbenzene	<0.49	ug/m3	1.4	0.49	1.41		02/14/23 15:03	95-63-6	
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.41		02/14/23 15:03	108-67-8	
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.41		02/14/23 15:03	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.41		02/14/23 15:03	75-01-4	
m&p-Xylene	<0.69	ug/m3	2.5	0.69	1.41		02/14/23 15:03	179601-23-1	
o-Xylene	<0.25	ug/m3	1.2	0.25	1.41		02/14/23 15:03	95-47-6	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Sample: AA-013123-TP-003 Lab ID: 10641964003 Collected: 01/31/23 10:31 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	<3.0	ug/m3	8.1	3.0	1.34		02/14/23 16:11	67-64-1	
Benzene	0.51	ug/m3	0.44	0.15	1.34		02/14/23 16:11	71-43-2	
Benzyl chloride	<1.0	ug/m3	3.5	1.0	1.34		02/14/23 16:11	100-44-7	
Bromodichloromethane	<0.43	ug/m3	1.8	0.43	1.34		02/14/23 16:11	75-27-4	
Bromoform	<1.0	ug/m3	7.0	1.0	1.34		02/14/23 16:11	75-25-2	
Bromomethane	<0.40	ug/m3	1.1	0.40	1.34		02/14/23 16:11	74-83-9	
1,3-Butadiene	<0.15	ug/m3	0.60	0.15	1.34		02/14/23 16:11	106-99-0	
2-Butanone (MEK)	<0.50	ug/m3	4.0	0.50	1.34		02/14/23 16:11	78-93-3	
Carbon disulfide	<0.31	ug/m3	0.85	0.31	1.34		02/14/23 16:11	75-15-0	
Carbon tetrachloride	2.3J	ug/m3	4.3	0.56	1.34		02/14/23 16:11	56-23-5	SS
Chlorobenzene	<0.19	ug/m3	1.3	0.19	1.34		02/14/23 16:11	108-90-7	
Chloroethane	<0.27	ug/m3	0.72	0.27	1.34		02/14/23 16:11	75-00-3	
Chloroform	<0.18	ug/m3	0.66	0.18	1.34		02/14/23 16:11	67-66-3	
Chloromethane	0.65	ug/m3	0.56	0.12	1.34		02/14/23 16:11	74-87-3	
Cyclohexane	<0.18	ug/m3	2.3	0.18	1.34		02/14/23 16:11	110-82-7	
Dibromochloromethane	<0.48	ug/m3	2.3	0.48	1.34		02/14/23 16:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.41	ug/m3	1.0	0.41	1.34		02/14/23 16:11	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.1	1.2	1.34		02/14/23 16:11	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	4.1	1.1	1.34		02/14/23 16:11	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.1	1.1	1.34		02/14/23 16:11	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.4	0.69	1.34		02/14/23 16:11	75-71-8	
1,1-Dichloroethane	<0.14	ug/m3	1.1	0.14	1.34		02/14/23 16:11	75-34-3	
1,2-Dichloroethane	<0.17	ug/m3	1.1	0.17	1.34		02/14/23 16:11	107-06-2	
1,1-Dichloroethene	<0.22	ug/m3	1.1	0.22	1.34		02/14/23 16:11	75-35-4	
cis-1,2-Dichloroethene	<0.29	ug/m3	1.1	0.29	1.34		02/14/23 16:11	156-59-2	
trans-1,2-Dichloroethene	<0.56	ug/m3	1.1	0.56	1.34		02/14/23 16:11	156-60-5	
1,2-Dichloropropane	<0.27	ug/m3	1.3	0.27	1.34		02/14/23 16:11	78-87-5	
cis-1,3-Dichloropropene	<0.88	ug/m3	3.1	0.88	1.34		02/14/23 16:11	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/m3	3.1	1.0	1.34		02/14/23 16:11	10061-02-6	
Dichlorotetrafluoroethane	<0.33	ug/m3	1.9	0.33	1.34		02/14/23 16:11	76-14-2	
Ethanol	5.5	ug/m3	2.6	1.2	1.34		02/14/23 16:11	64-17-5	
Ethyl acetate	<0.21	ug/m3	0.98	0.21	1.34		02/14/23 16:11	141-78-6	
Ethylbenzene	<0.24	ug/m3	1.2	0.24	1.34		02/14/23 16:11	100-41-4	
4-Ethyltoluene	<0.55	ug/m3	3.4	0.55	1.34		02/14/23 16:11	622-96-8	
n-Heptane	0.21J	ug/m3	1.1	0.17	1.34		02/14/23 16:11	142-82-5	
Hexachloro-1,3-butadiene	<2.4	ug/m3	7.3	2.4	1.34		02/14/23 16:11	87-68-3	
n-Hexane	0.43J	ug/m3	0.96	0.31	1.34		02/14/23 16:11	110-54-3	
2-Hexanone	<0.92	ug/m3	5.6	0.92	1.34		02/14/23 16:11	591-78-6	
Isopropylbenzene (Cumene)	<0.78	ug/m3	3.4	0.78	1.34		02/14/23 16:11	98-82-8	
Methylene Chloride	0.25J	ug/m3	4.7	0.17	1.34		02/14/23 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.72	ug/m3	5.6	0.72	1.34		02/14/23 16:11	108-10-1	
Methyl-tert-butyl ether	<0.34	ug/m3	4.9	0.34	1.34		02/14/23 16:11	1634-04-4	
Naphthalene	<2.8	ug/m3	3.6	2.8	1.34		02/14/23 16:11	91-20-3	
2-Propanol	<1.3	ug/m3	3.4	1.3	1.34		02/14/23 16:11	67-63-0	
Propylene	<0.48	ug/m3	1.2	0.48	1.34		02/14/23 16:11	115-07-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641964

Sample: AA-013123-TP-003 **Lab ID: 10641964003** Collected: 01/31/23 10:31 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.56	ug/m3	1.2	0.56	1.34		02/14/23 16:11	100-42-5	
1,1,2,2-Tetrachloroethane	<0.38	ug/m3	1.9	0.38	1.34		02/14/23 16:11	79-34-5	
Tetrachloroethene	<0.33	ug/m3	0.92	0.33	1.34		02/14/23 16:11	127-18-4	
Tetrahydrofuran	<0.25	ug/m3	0.80	0.25	1.34		02/14/23 16:11	109-99-9	
THC as Gas	<142	ug/m3	283	142	1.34		02/14/23 16:11		
Toluene	0.67J	ug/m3	1.0	0.22	1.34		02/14/23 16:11	108-88-3	
1,2,4-Trichlorobenzene	<7.7	ug/m3	10.1	7.7	1.34		02/14/23 16:11	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/m3	1.5	0.24	1.34		02/14/23 16:11	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.74	0.35	1.34		02/14/23 16:11	79-00-5	
Trichloroethene	<0.32	ug/m3	0.73	0.32	1.34		02/14/23 16:11	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.5	0.27	1.34		02/14/23 16:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.45J	ug/m3	2.1	0.31	1.34		02/14/23 16:11	76-13-1	
1,2,4-Trimethylbenzene	<0.47	ug/m3	1.3	0.47	1.34		02/14/23 16:11	95-63-6	
1,3,5-Trimethylbenzene	<0.37	ug/m3	1.3	0.37	1.34		02/14/23 16:11	108-67-8	
Vinyl acetate	<0.24	ug/m3	0.96	0.24	1.34		02/14/23 16:11	108-05-4	
Vinyl chloride	<0.13	ug/m3	0.35	0.13	1.34		02/14/23 16:11	75-01-4	
m&p-Xylene	<0.66	ug/m3	2.4	0.66	1.34		02/14/23 16:11	179601-23-1	
o-Xylene	<0.24	ug/m3	1.2	0.24	1.34		02/14/23 16:11	95-47-6	

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

QC Batch: 867360

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory:

Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641964001, 10641964002, 10641964003

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641964001, 10641964002, 10641964003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	0.18	02/14/23 10:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	0.29	02/14/23 10:28	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	0.26	02/14/23 10:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	0.23	02/14/23 10:28	
1,1-Dichloroethane	ug/m3	<0.11	0.82	0.11	02/14/23 10:28	
1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	0.35	02/14/23 10:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,2-Dichloroethane	ug/m3	<0.13	0.82	0.13	02/14/23 10:28	
1,2-Dichloropropane	ug/m3	<0.20	0.94	0.20	02/14/23 10:28	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	0.82	02/14/23 10:28	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	02/14/23 10:28	
2-Butanone (MEK)	ug/m3	<0.38	3.0	0.38	02/14/23 10:28	
2-Hexanone	ug/m3	<0.69	4.2	0.69	02/14/23 10:28	
2-Propanol	ug/m3	<0.96	2.5	0.96	02/14/23 10:28	
4-Ethyltoluene	ug/m3	<0.41	2.5	0.41	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	0.54	02/14/23 10:28	
Acetone	ug/m3	<2.2	6.0	2.2	02/14/23 10:28	
Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Benzyl chloride	ug/m3	<0.77	2.6	0.77	02/14/23 10:28	
Bromodichloromethane	ug/m3	<0.32	1.4	0.32	02/14/23 10:28	
Bromoform	ug/m3	<0.78	5.2	0.78	02/14/23 10:28	
Bromomethane	ug/m3	<0.30	0.79	0.30	02/14/23 10:28	
Carbon disulfide	ug/m3	<0.23	0.63	0.23	02/14/23 10:28	
Carbon tetrachloride	ug/m3	<0.42	3.2	0.42	02/14/23 10:28	
Chlorobenzene	ug/m3	<0.14	0.94	0.14	02/14/23 10:28	
Chloroethane	ug/m3	<0.20	0.54	0.20	02/14/23 10:28	
Chloroform	ug/m3	<0.13	0.50	0.13	02/14/23 10:28	
Chloromethane	ug/m3	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	0.21	02/14/23 10:28	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	0.65	02/14/23 10:28	
Cyclohexane	ug/m3	<0.13	1.8	0.13	02/14/23 10:28	
Dibromochloromethane	ug/m3	<0.36	1.7	0.36	02/14/23 10:28	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	0.51	02/14/23 10:28	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	0.24	02/14/23 10:28	
Ethanol	ug/m3	<0.90	1.9	0.90	02/14/23 10:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641964001, 10641964002, 10641964003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.16	0.73	0.16	02/14/23 10:28	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	1.8	02/14/23 10:28	
Isopropylbenzene (Cumene)	ug/m3	<0.58	2.5	0.58	02/14/23 10:28	
m&p-Xylene	ug/m3	<0.49	1.8	0.49	02/14/23 10:28	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	0.25	02/14/23 10:28	
Methylene Chloride	ug/m3	<0.12	3.5	0.12	02/14/23 10:28	
n-Heptane	ug/m3	0.13J	0.83	0.13	02/14/23 10:28	
n-Hexane	ug/m3	<0.23	0.72	0.23	02/14/23 10:28	
Naphthalene	ug/m3	<2.1	2.7	2.1	02/14/23 10:28	
o-Xylene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Propylene	ug/m3	<0.36	0.88	0.36	02/14/23 10:28	
Styrene	ug/m3	<0.42	0.87	0.42	02/14/23 10:28	
Tetrachloroethene	ug/m3	<0.25	0.69	0.25	02/14/23 10:28	
Tetrahydrofuran	ug/m3	<0.19	0.60	0.19	02/14/23 10:28	
THC as Gas	ug/m3	<106	211	106	02/14/23 10:28	
Toluene	ug/m3	<0.16	0.77	0.16	02/14/23 10:28	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	0.42	02/14/23 10:28	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Trichloroethene	ug/m3	<0.24	0.55	0.24	02/14/23 10:28	
Trichlorofluoromethane	ug/m3	<0.20	1.1	0.20	02/14/23 10:28	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	02/14/23 10:28	
Vinyl chloride	ug/m3	<0.096	0.26	0.096	02/14/23 10:28	

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	51.8	89	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1,1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1,1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
1,2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
1,2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
1,3-Butadiene	ug/m3	23.9	20.7	86	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
2-Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
4-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
Acetone	ug/m3	127	103	81	65-131	
Benzene	ug/m3	33.8	30.6	91	70-130	
Benzyl chloride	ug/m3	55.6	55.0	99	70-130	
Bromodichloromethane	ug/m3	71.5	68.0	95	70-132	
Bromoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
Carbon disulfide	ug/m3	33	30.2	92	70-131	
Carbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
Chlorobenzene	ug/m3	49	48.3	99	70-133	
Chloroethane	ug/m3	28.1	21.3	76	64-140	
Chloroform	ug/m3	52.1	46.9	90	70-133	
Chloromethane	ug/m3	22	18.7	85	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Cyclohexane	ug/m3	36.4	30.8	85	70-134	
Dibromochloromethane	ug/m3	90.6	91.7	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
Ethanol	ug/m3	113	87.9	78	65-130	
Ethyl acetate	ug/m3	38.4	39.0	101	70-134	
Ethylbenzene	ug/m3	46.2	42.9	93	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
m&p-Xylene	ug/m3	92.4	82.1	89	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
n-Heptane	ug/m3	43.5	35.0	81	69-140	
n-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	40.8	89	70-132	
Propylene	ug/m3	18.6	15.0	81	69-130	
Styrene	ug/m3	45.3	48.4	107	70-136	
Tetrachloroethene	ug/m3	72	69.2	96	70-139	
Tetrahydrofuran	ug/m3	31.3	26.8	85	70-139	
THC as Gas	ug/m3	5050	5700	113	70-136	
Toluene	ug/m3	40.2	36.1	90	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
Trichloroethene	ug/m3	57.2	56.8	99	70-132	
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
Vinyl acetate	ug/m3	38.7	40.9	106	70-131	
Vinyl chloride	ug/m3	27.2	23.8	87	64-136	

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43			25
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38			25
1,1,2-Trichlorotrifluoroethane	ug/m3	0.44J	0.42J			25
1,1-Dichloroethane	ug/m3	<0.16	<0.16			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5			25
1,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J			25
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46			25
1,2-Dichlorobenzene	ug/m3	<1.3	<1.3			25
1,2-Dichloroethane	ug/m3	<0.19	<0.19			25
1,2-Dichloropropane	ug/m3	<0.30	<0.30			25
1,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41			25
1,3-Butadiene	ug/m3	<0.17	<0.17			25
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2			25
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2			25
2-Butanone (MEK)	ug/m3	2.7J	2.6J			25
2-Hexanone	ug/m3	<1.0	<1.0			25
2-Propanol	ug/m3	13.9	12.9	8		25
4-Ethyltoluene	ug/m3	<0.61	<0.61			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80			25
Acetone	ug/m3	13.2	12.5	6		25
Benzene	ug/m3	2.0	2.0	4		25
Benzyl chloride	ug/m3	<1.1	<1.1			25
Bromodichloromethane	ug/m3	0.60J	0.55J			25
Bromoform	ug/m3	<1.2	<1.2			25
Bromomethane	ug/m3	<0.44	<0.44			25
Carbon disulfide	ug/m3	<0.35	<0.35			25
Carbon tetrachloride	ug/m3	2.7J	2.6J			25
Chlorobenzene	ug/m3	<0.21	<0.21			25
Chloroethane	ug/m3	<0.31	<0.31			25
Chloroform	ug/m3	1.5	1.4	7		25
Chloromethane	ug/m3	2.1	2.0	8		25
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32			25
cis-1,3-Dichloropropene	ug/m3	<0.97	<0.97			25
Cyclohexane	ug/m3	<0.20	<0.20			25
Dibromochloromethane	ug/m3	<0.54	<0.54			25
Dichlorodifluoromethane	ug/m3	1.8	1.6	11		25
Dichlorotetrafluoroethane	ug/m3	<0.36	<0.36			25
Ethanol	ug/m3	132	127	4		25
Ethyl acetate	ug/m3	2.6	2.4	6		25
Ethylbenzene	ug/m3	0.68J	0.67J			25
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6			25
Isopropylbenzene (Cumene)	ug/m3	<0.87	<0.87			25
m&p-Xylene	ug/m3	2.5J	2.4J			25
Methyl-tert-butyl ether	ug/m3	<0.37	<0.37			25
Methylene Chloride	ug/m3	0.40J	0.37J			25

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ug/m3	0.82J	0.83J		25	
n-Hexane	ug/m3	0.61J	0.59J		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.68J	0.68J		25	
Propylene	ug/m3	5.9	5.5	8	25	
Styrene	ug/m3	0.77J	0.73J		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Tetrahydrofuran	ug/m3	1.1	1.1	7	25	
THC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<1.2	<1.2		25	
Trichloroethene	ug/m3	6.1	5.7	7	25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.26	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.38J	0.44J		25	
1,1-Dichloroethane	ug/m3	<0.15	<0.15		25	
1,1-Dichloroethene	ug/m3	<0.23	<0.23		25	
1,2,4-Trichlorobenzene	ug/m3	<8.1	<8.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.49	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44		25	
1,2-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,2-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,2-Dichloropropane	ug/m3	<0.28	<0.28		25	
1,3,5-Trimethylbenzene	ug/m3	<0.39	<0.39		25	
1,3-Butadiene	ug/m3	<0.16	<0.16		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<0.97	<0.97		25	
2-Propanol	ug/m3	69.4	71.8	3	25	
4-Ethyltoluene	ug/m3	<0.57	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.76	<0.76		25	
Acetone	ug/m3	18.8	19.4	3	25	
Benzene	ug/m3	0.56	0.55	2	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	<0.45	<0.45		25	

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641964

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/m3	<1.1	<1.1		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.59	<0.59		25	
Chlorobenzene	ug/m3	<0.20	<0.20		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	0.33J	0.34J		25	
Chloromethane	ug/m3	0.64	0.67	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.92	<0.92		25	
Cyclohexane	ug/m3	<0.19	<0.19		25	
Dibromochloromethane	ug/m3	<0.51	<0.51		25	
Dichlorodifluoromethane	ug/m3	1.5	1.7	10	25	
Dichlorotetrafluoroethane	ug/m3	<0.34	<0.34		25	
Ethanol	ug/m3	17.1	16.8	2	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
Isopropylbenzene (Cumene)	ug/m3	<0.82	<0.82		25	
m&p-Xylene	ug/m3	<0.69	<0.69		25	
Methyl-tert-butyl ether	ug/m3	<0.35	<0.35		25	
Methylene Chloride	ug/m3	0.21J	0.23J		25	
n-Heptane	ug/m3	0.27J	0.26J		25	
n-Hexane	ug/m3	<0.33	<0.33		25	
Naphthalene	ug/m3	<2.9	<2.9		25	
o-Xylene	ug/m3	<0.25	<0.25		25	
Propylene	ug/m3	0.99J	1.1J		25	
Styrene	ug/m3	<0.59	<0.59		25	
Tetrachloroethene	ug/m3	<0.35	<0.35		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
THC as Gas	ug/m3	<149	<149		25	
Toluene	ug/m3	1.3	1.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.59	<0.59		25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 12584838-03 CMW

Pace Project No.: 10641964

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 CMW
Pace Project No.: 10641964

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10641964001	IA-013123-TP-001	TO-15	867360		
10641964002	IA-013123-TP-002	TO-15	867360		
10641964003	AA-013123-TP-003	TO-15	867360		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Company: <u>6570 Corporate Dr</u> Address: <u>Godfreyville, IN</u> Email To: Phone: Fax:	Section B Required Project Information:	Report To: <u>M. Ve Anderson</u> Copy To: <u>Kyle Anthony</u> Purchase Order No.: Project Name: <u>CMU</u> Project Number: <u>12584838-03</u>	Section C Invoice Information:	Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:						
Requested Due Date/TAT: <u>Standard</u>		Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other							
*Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED		Reporting Units mg/m ³ ppbv ppmv Other							
ITEM #		MEDIA CODE	PID Reading (Client only)	COMPOSITE START	COMPOSITE - END/GRAB	Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method:	Pace Lab ID
1	IA-013123-TP-001	6LC		DATE: 1/30/23 TIME: 10:00	DATE: 1/31/23 TIME: 9:53	-30	-5	10500860		3C - Fixed Gas (%)	001
2	IA-013123-TP-002	6LC		DATE: 1/30/23 TIME: 9:59	DATE: 1/31/23 TIME: 9:52	-30	-3	33432042		TO-15 Full List VOCs	002
3	AA-013123-TP-003	6LC		DATE: 1/30/23 TIME: 10:15	DATE: 1/31/23 TIME: 10:31	-30	-5	35982086		TO-15 Short List (other)	003
4										TO-15 Short List (Chlorinated)	
5										TO-15 Short List BTEX	
6										TO-15 Short List VOCs	
7										TO-14	
8										TO-3M (Methane)	
9										TO-3 BTEX	
10										PM10	
11											
12											

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>[Signature]</u>	1/30/23	16:40	<u>Max A. Pace</u>	2-6-23	12:37	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
						Y/N
						Y/N
						Y/N
						Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: [Signature]
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY)

WO# : 10641964

10641964



DC#_ Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

WO#: 10641964

PM: CT1

Due Date: 02/20/23

CLIENT: CRA_INDY

Air Sample Condition Upon Receipt

Client Name: GHD

Project #:

Courier: [X] FedEx [] UPS [] USPS [] Client [] Pace [] SpeedDee [] Commercial

Tracking Number: [] See Exception [X]

Custody Seal on Cooler/Box Present? [] Yes [X] No

Seals Intact? [] Yes [] No

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other:

Date & Initials of Person Examining Contents: 2-7-23 MI

Comments:

Table with 13 rows of questions and checkboxes. Questions include Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Media, and information availability for reconciliation.

Gauge #: [] 10AIR26 [] 10AIR34 [] 10AIR35 [] 10AIR17 [] 10AIR47 [X] 10AIR48

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure, Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples 001, 002, and 003.

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Field Data Required? [] Yes [] No

Project Manager Review:

Carolynne Trout

Date: 2/8/23

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

February 20, 2023

Michael Richardson
GHD Services
6520 Corporate Dr.
Indianapolis, IN 46278

RE: Project: 12584838-03 CMW
Pace Project No.: 10641962

Dear Michael Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Amberger, GHD
Matthew Groves, GHD Services
Jonathon Lang, GHD Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 12584838-03 CMW

Pace Project No.: 10641962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10641962001	AC-013123-TP-004	Air	01/31/23 11:59	02/06/23 12:37
10641962002	IA-013123-TP-005	Air	01/31/23 11:55	02/06/23 12:37
10641962003	IA-013123-TP-006	Air	01/31/23 11:55	02/06/23 12:37
10641962004	SG-013123-TP-007	Air	01/31/23 11:56	02/06/23 12:37
10641962005	IA-013123-TP-008	Air	01/31/23 11:54	02/06/23 12:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12584838-03 CMW
Pace Project No.: 10641962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10641962001	AC-013123-TP-004	TO-15	MJL	63	PASI-M
10641962002	IA-013123-TP-005	TO-15	MJL	63	PASI-M
10641962003	IA-013123-TP-006	TO-15	MJL	63	PASI-M
10641962004	SG-013123-TP-007	TO-15	MJL	63	PASI-M
10641962005	IA-013123-TP-008	TO-15	MJL	63	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 12584838-03 CMW

Pace Project No.: 10641962

Method: TO-15

Description: TO15 MSV AIR

Client: GHD Services_AIR

Date: February 20, 2023

General Information:

5 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 867360

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- AC-013123-TP-004 (Lab ID: 10641962001)
 - Carbon tetrachloride
- IA-013123-TP-005 (Lab ID: 10641962002)
 - Carbon tetrachloride
- IA-013123-TP-006 (Lab ID: 10641962003)
 - Carbon tetrachloride
- IA-013123-TP-008 (Lab ID: 10641962005)
 - Carbon tetrachloride
- LCS (Lab ID: 4576606)
 - Carbon tetrachloride
- SG-013123-TP-007 (Lab ID: 10641962004)
 - Carbon tetrachloride

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: AC-013123-TP-004 Lab ID: 10641962001 Collected: 01/31/23 11:59 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	<3.1	ug/m3	8.4	3.1	1.39		02/14/23 16:46	67-64-1	
Benzene	0.62	ug/m3	0.45	0.15	1.39		02/14/23 16:46	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.7	1.1	1.39		02/14/23 16:46	100-44-7	
Bromodichloromethane	<0.44	ug/m3	1.9	0.44	1.39		02/14/23 16:46	75-27-4	
Bromoform	<1.1	ug/m3	7.3	1.1	1.39		02/14/23 16:46	75-25-2	
Bromomethane	<0.41	ug/m3	1.1	0.41	1.39		02/14/23 16:46	74-83-9	
1,3-Butadiene	<0.15	ug/m3	0.63	0.15	1.39		02/14/23 16:46	106-99-0	
2-Butanone (MEK)	<0.52	ug/m3	4.2	0.52	1.39		02/14/23 16:46	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.88	0.33	1.39		02/14/23 16:46	75-15-0	
Carbon tetrachloride	3.8J	ug/m3	4.4	0.58	1.39		02/14/23 16:46	56-23-5	SS
Chlorobenzene	<0.19	ug/m3	1.3	0.19	1.39		02/14/23 16:46	108-90-7	
Chloroethane	<0.28	ug/m3	0.75	0.28	1.39		02/14/23 16:46	75-00-3	
Chloroform	0.72	ug/m3	0.69	0.19	1.39		02/14/23 16:46	67-66-3	
Chloromethane	0.71	ug/m3	0.58	0.12	1.39		02/14/23 16:46	74-87-3	
Cyclohexane	<0.19	ug/m3	2.4	0.19	1.39		02/14/23 16:46	110-82-7	
Dibromochloromethane	<0.50	ug/m3	2.4	0.50	1.39		02/14/23 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.43	ug/m3	1.1	0.43	1.39		02/14/23 16:46	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.39		02/14/23 16:46	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 16:46	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 16:46	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.71	1.39		02/14/23 16:46	75-71-8	
1,1-Dichloroethane	0.16J	ug/m3	1.1	0.15	1.39		02/14/23 16:46	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.1	0.18	1.39		02/14/23 16:46	107-06-2	
1,1-Dichloroethene	<0.23	ug/m3	1.1	0.23	1.39		02/14/23 16:46	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/m3	1.1	0.30	1.39		02/14/23 16:46	156-59-2	
trans-1,2-Dichloroethene	<0.58	ug/m3	1.1	0.58	1.39		02/14/23 16:46	156-60-5	
1,2-Dichloropropane	<0.28	ug/m3	1.3	0.28	1.39		02/14/23 16:46	78-87-5	
cis-1,3-Dichloropropene	<0.91	ug/m3	3.2	0.91	1.39		02/14/23 16:46	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.2	1.1	1.39		02/14/23 16:46	10061-02-6	
Dichlorotetrafluoroethane	<0.34	ug/m3	2.0	0.34	1.39		02/14/23 16:46	76-14-2	
Ethanol	25.6	ug/m3	2.7	1.3	1.39		02/14/23 16:46	64-17-5	
Ethyl acetate	0.56J	ug/m3	1.0	0.22	1.39		02/14/23 16:46	141-78-6	
Ethylbenzene	<0.25	ug/m3	1.2	0.25	1.39		02/14/23 16:46	100-41-4	
4-Ethyltoluene	<0.57	ug/m3	3.5	0.57	1.39		02/14/23 16:46	622-96-8	
n-Heptane	0.35J	ug/m3	1.2	0.18	1.39		02/14/23 16:46	142-82-5	
Hexachloro-1,3-butadiene	<2.4	ug/m3	7.5	2.4	1.39		02/14/23 16:46	87-68-3	
n-Hexane	0.80J	ug/m3	1.0	0.32	1.39		02/14/23 16:46	110-54-3	
2-Hexanone	<0.96	ug/m3	5.8	0.96	1.39		02/14/23 16:46	591-78-6	
Isopropylbenzene (Cumene)	<0.81	ug/m3	3.5	0.81	1.39		02/14/23 16:46	98-82-8	
Methylene Chloride	0.21J	ug/m3	4.9	0.17	1.39		02/14/23 16:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	5.8	0.75	1.39		02/14/23 16:46	108-10-1	
Methyl-tert-butyl ether	<0.35	ug/m3	5.1	0.35	1.39		02/14/23 16:46	1634-04-4	
Naphthalene	<2.9	ug/m3	3.7	2.9	1.39		02/14/23 16:46	91-20-3	
2-Propanol	1.4J	ug/m3	3.5	1.3	1.39		02/14/23 16:46	67-63-0	
Propylene	<0.50	ug/m3	1.2	0.50	1.39		02/14/23 16:46	115-07-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: AC-013123-TP-004 **Lab ID:** 10641962001 Collected: 01/31/23 11:59 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.58	ug/m3	1.2	0.58	1.39		02/14/23 16:46	100-42-5	
1,1,2,2-Tetrachloroethane	<0.40	ug/m3	1.9	0.40	1.39		02/14/23 16:46	79-34-5	
Tetrachloroethene	<0.34	ug/m3	0.96	0.34	1.39		02/14/23 16:46	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.83	0.26	1.39		02/14/23 16:46	109-99-9	
THC as Gas	<147	ug/m3	293	147	1.39		02/14/23 16:46		
Toluene	1.6	ug/m3	1.1	0.23	1.39		02/14/23 16:46	108-88-3	
1,2,4-Trichlorobenzene	<8.0	ug/m3	10.5	8.0	1.39		02/14/23 16:46	120-82-1	
1,1,1-Trichloroethane	1.9	ug/m3	1.5	0.25	1.39		02/14/23 16:46	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.77	0.36	1.39		02/14/23 16:46	79-00-5	
Trichloroethene	48.0	ug/m3	0.76	0.33	1.39		02/14/23 16:46	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.28	1.39		02/14/23 16:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.42J	ug/m3	2.2	0.32	1.39		02/14/23 16:46	76-13-1	
1,2,4-Trimethylbenzene	<0.49	ug/m3	1.4	0.49	1.39		02/14/23 16:46	95-63-6	
1,3,5-Trimethylbenzene	<0.38	ug/m3	1.4	0.38	1.39		02/14/23 16:46	108-67-8	
Vinyl acetate	<0.24	ug/m3	1.0	0.24	1.39		02/14/23 16:46	108-05-4	
Vinyl chloride	<0.13	ug/m3	0.36	0.13	1.39		02/14/23 16:46	75-01-4	
m&p-Xylene	0.89J	ug/m3	2.5	0.68	1.39		02/14/23 16:46	179601-23-1	
o-Xylene	0.32J	ug/m3	1.2	0.25	1.39		02/14/23 16:46	95-47-6	

Sample: IA-013123-TP-005 **Lab ID:** 10641962002 Collected: 01/31/23 11:55 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	7.7J	ug/m3	8.7	3.2	1.44		02/14/23 17:20	67-64-1	
Benzene	0.89	ug/m3	0.47	0.16	1.44		02/14/23 17:20	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.44		02/14/23 17:20	100-44-7	
Bromodichloromethane	<0.46	ug/m3	2.0	0.46	1.44		02/14/23 17:20	75-27-4	
Bromoform	<1.1	ug/m3	7.6	1.1	1.44		02/14/23 17:20	75-25-2	
Bromomethane	<0.43	ug/m3	1.1	0.43	1.44		02/14/23 17:20	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.65	0.16	1.44		02/14/23 17:20	106-99-0	
2-Butanone (MEK)	1.1J	ug/m3	4.3	0.54	1.44		02/14/23 17:20	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.91	0.34	1.44		02/14/23 17:20	75-15-0	
Carbon tetrachloride	2.2J	ug/m3	4.6	0.60	1.44		02/14/23 17:20	56-23-5	SS
Chlorobenzene	<0.20	ug/m3	1.3	0.20	1.44		02/14/23 17:20	108-90-7	
Chloroethane	<0.30	ug/m3	0.77	0.30	1.44		02/14/23 17:20	75-00-3	
Chloroform	0.47J	ug/m3	0.71	0.19	1.44		02/14/23 17:20	67-66-3	
Chloromethane	<0.13	ug/m3	0.60	0.13	1.44		02/14/23 17:20	74-87-3	
Cyclohexane	0.72J	ug/m3	2.5	0.19	1.44		02/14/23 17:20	110-82-7	
Dibromochloromethane	<0.52	ug/m3	2.5	0.52	1.44		02/14/23 17:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/m3	1.1	0.44	1.44		02/14/23 17:20	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 17:20	95-50-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: IA-013123-TP-005 **Lab ID: 10641962002** Collected: 01/31/23 11:55 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 17:20	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.4	1.2	1.44		02/14/23 17:20	106-46-7	
Dichlorodifluoromethane	1.9	ug/m3	1.5	0.74	1.44		02/14/23 17:20	75-71-8	
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.44		02/14/23 17:20	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.44		02/14/23 17:20	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		02/14/23 17:20	75-35-4	
cis-1,2-Dichloroethene	0.81J	ug/m3	1.2	0.31	1.44		02/14/23 17:20	156-59-2	
trans-1,2-Dichloroethene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 17:20	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.44		02/14/23 17:20	78-87-5	
cis-1,3-Dichloropropene	<0.94	ug/m3	3.3	0.94	1.44		02/14/23 17:20	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.44		02/14/23 17:20	10061-02-6	
Dichlorotetrafluoroethane	<0.35	ug/m3	2.0	0.35	1.44		02/14/23 17:20	76-14-2	
Ethanol	78.2	ug/m3	2.8	1.3	1.44		02/14/23 17:20	64-17-5	
Ethyl acetate	1.9	ug/m3	1.1	0.23	1.44		02/14/23 17:20	141-78-6	
Ethylbenzene	0.49J	ug/m3	1.3	0.26	1.44		02/14/23 17:20	100-41-4	
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.44		02/14/23 17:20	622-96-8	
n-Heptane	0.89J	ug/m3	1.2	0.19	1.44		02/14/23 17:20	142-82-5	
Hexachloro-1,3-butadiene	<2.5	ug/m3	7.8	2.5	1.44		02/14/23 17:20	87-68-3	
n-Hexane	1.8	ug/m3	1.0	0.33	1.44		02/14/23 17:20	110-54-3	
2-Hexanone	<0.99	ug/m3	6.0	0.99	1.44		02/14/23 17:20	591-78-6	
Isopropylbenzene (Cumene)	<0.84	ug/m3	3.6	0.84	1.44		02/14/23 17:20	98-82-8	
Methylene Chloride	0.24J	ug/m3	5.1	0.18	1.44		02/14/23 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.0	0.77	1.44		02/14/23 17:20	108-10-1	
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.44		02/14/23 17:20	1634-04-4	
Naphthalene	<3.0	ug/m3	3.8	3.0	1.44		02/14/23 17:20	91-20-3	
2-Propanol	3.1J	ug/m3	3.6	1.4	1.44		02/14/23 17:20	67-63-0	
Propylene	<0.51	ug/m3	1.3	0.51	1.44		02/14/23 17:20	115-07-1	
Styrene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 17:20	100-42-5	
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	2.0	0.41	1.44		02/14/23 17:20	79-34-5	
Tetrachloroethene	<0.36	ug/m3	0.99	0.36	1.44		02/14/23 17:20	127-18-4	
Tetrahydrofuran	<0.27	ug/m3	0.86	0.27	1.44		02/14/23 17:20	109-99-9	
THC as Gas	<153	ug/m3	304	153	1.44		02/14/23 17:20		
Toluene	3.4	ug/m3	1.1	0.23	1.44		02/14/23 17:20	108-88-3	
1,2,4-Trichlorobenzene	<8.3	ug/m3	10.9	8.3	1.44		02/14/23 17:20	120-82-1	
1,1,1-Trichloroethane	1.1J	ug/m3	1.6	0.26	1.44		02/14/23 17:20	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.80	0.37	1.44		02/14/23 17:20	79-00-5	
Trichloroethene	29.3	ug/m3	0.79	0.34	1.44		02/14/23 17:20	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.6	0.29	1.44		02/14/23 17:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.48J	ug/m3	2.2	0.33	1.44		02/14/23 17:20	76-13-1	
1,2,4-Trimethylbenzene	0.58J	ug/m3	1.4	0.50	1.44		02/14/23 17:20	95-63-6	
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.44		02/14/23 17:20	108-67-8	
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.44		02/14/23 17:20	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.44		02/14/23 17:20	75-01-4	
m&p-Xylene	1.9J	ug/m3	2.5	0.71	1.44		02/14/23 17:20	179601-23-1	
o-Xylene	0.69J	ug/m3	1.3	0.26	1.44		02/14/23 17:20	95-47-6	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: IA-013123-TP-006 Lab ID: 10641962003 Collected: 01/31/23 11:55 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	7.2J	ug/m3	8.5	3.1	1.41		02/14/23 17:55	67-64-1	
Benzene	0.87	ug/m3	0.46	0.16	1.41		02/14/23 17:55	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.7	1.1	1.41		02/14/23 17:55	100-44-7	
Bromodichloromethane	<0.45	ug/m3	1.9	0.45	1.41		02/14/23 17:55	75-27-4	
Bromoform	<1.1	ug/m3	7.4	1.1	1.41		02/14/23 17:55	75-25-2	
Bromomethane	<0.42	ug/m3	1.1	0.42	1.41		02/14/23 17:55	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.63	0.16	1.41		02/14/23 17:55	106-99-0	
2-Butanone (MEK)	0.80J	ug/m3	4.2	0.53	1.41		02/14/23 17:55	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.89	0.33	1.41		02/14/23 17:55	75-15-0	
Carbon tetrachloride	2.4J	ug/m3	4.5	0.59	1.41		02/14/23 17:55	56-23-5	SS
Chlorobenzene	<0.20	ug/m3	1.3	0.20	1.41		02/14/23 17:55	108-90-7	
Chloroethane	<0.29	ug/m3	0.76	0.29	1.41		02/14/23 17:55	75-00-3	
Chloroform	0.48J	ug/m3	0.70	0.19	1.41		02/14/23 17:55	67-66-3	
Chloromethane	<0.12	ug/m3	0.59	0.12	1.41		02/14/23 17:55	74-87-3	
Cyclohexane	0.68J	ug/m3	2.5	0.19	1.41		02/14/23 17:55	110-82-7	
Dibromochloromethane	<0.51	ug/m3	2.4	0.51	1.41		02/14/23 17:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/m3	1.1	0.44	1.41		02/14/23 17:55	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.41		02/14/23 17:55	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.41		02/14/23 17:55	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.41		02/14/23 17:55	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.72	1.41		02/14/23 17:55	75-71-8	
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.41		02/14/23 17:55	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.41		02/14/23 17:55	107-06-2	
1,1-Dichloroethene	<0.23	ug/m3	1.1	0.23	1.41		02/14/23 17:55	75-35-4	
cis-1,2-Dichloroethene	0.72J	ug/m3	1.1	0.30	1.41		02/14/23 17:55	156-59-2	
trans-1,2-Dichloroethene	<0.59	ug/m3	1.1	0.59	1.41		02/14/23 17:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/m3	1.3	0.28	1.41		02/14/23 17:55	78-87-5	
cis-1,3-Dichloropropene	<0.92	ug/m3	3.3	0.92	1.41		02/14/23 17:55	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.41		02/14/23 17:55	10061-02-6	
Dichlorotetrafluoroethane	<0.34	ug/m3	2.0	0.34	1.41		02/14/23 17:55	76-14-2	
Ethanol	70.8	ug/m3	2.7	1.3	1.41		02/14/23 17:55	64-17-5	
Ethyl acetate	1.7	ug/m3	1.0	0.23	1.41		02/14/23 17:55	141-78-6	
Ethylbenzene	0.49J	ug/m3	1.2	0.25	1.41		02/14/23 17:55	100-41-4	
4-Ethyltoluene	<0.57	ug/m3	3.5	0.57	1.41		02/14/23 17:55	622-96-8	
n-Heptane	0.78J	ug/m3	1.2	0.18	1.41		02/14/23 17:55	142-82-5	
Hexachloro-1,3-butadiene	<2.5	ug/m3	7.6	2.5	1.41		02/14/23 17:55	87-68-3	
n-Hexane	1.8	ug/m3	1.0	0.33	1.41		02/14/23 17:55	110-54-3	
2-Hexanone	<0.97	ug/m3	5.9	0.97	1.41		02/14/23 17:55	591-78-6	
Isopropylbenzene (Cumene)	<0.82	ug/m3	3.5	0.82	1.41		02/14/23 17:55	98-82-8	
Methylene Chloride	0.23J	ug/m3	5.0	0.18	1.41		02/14/23 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.76	ug/m3	5.9	0.76	1.41		02/14/23 17:55	108-10-1	
Methyl-tert-butyl ether	<0.35	ug/m3	5.2	0.35	1.41		02/14/23 17:55	1634-04-4	
Naphthalene	<2.9	ug/m3	3.8	2.9	1.41		02/14/23 17:55	91-20-3	
2-Propanol	3.0J	ug/m3	3.5	1.4	1.41		02/14/23 17:55	67-63-0	
Propylene	<0.50	ug/m3	1.2	0.50	1.41		02/14/23 17:55	115-07-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: IA-013123-TP-006 Lab ID: 10641962003 Collected: 01/31/23 11:55 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.59	ug/m3	1.2	0.59	1.41		02/14/23 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	<0.40	ug/m3	2.0	0.40	1.41		02/14/23 17:55	79-34-5	
Tetrachloroethene	<0.35	ug/m3	0.97	0.35	1.41		02/14/23 17:55	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.85	0.26	1.41		02/14/23 17:55	109-99-9	
THC as Gas	<149	ug/m3	298	149	1.41		02/14/23 17:55		
Toluene	3.1	ug/m3	1.1	0.23	1.41		02/14/23 17:55	108-88-3	
1,2,4-Trichlorobenzene	<8.1	ug/m3	10.6	8.1	1.41		02/14/23 17:55	120-82-1	
1,1,1-Trichloroethane	1.1J	ug/m3	1.6	0.26	1.41		02/14/23 17:55	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.78	0.36	1.41		02/14/23 17:55	79-00-5	
Trichloroethene	28.2	ug/m3	0.77	0.34	1.41		02/14/23 17:55	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.28	1.41		02/14/23 17:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.2	0.32	1.41		02/14/23 17:55	76-13-1	
1,2,4-Trimethylbenzene	0.55J	ug/m3	1.4	0.49	1.41		02/14/23 17:55	95-63-6	
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.41		02/14/23 17:55	108-67-8	
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.41		02/14/23 17:55	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.41		02/14/23 17:55	75-01-4	
m&p-Xylene	1.8J	ug/m3	2.5	0.69	1.41		02/14/23 17:55	179601-23-1	
o-Xylene	0.65J	ug/m3	1.2	0.25	1.41		02/14/23 17:55	95-47-6	

Sample: SG-013123-TP-007 Lab ID: 10641962004 Collected: 01/31/23 11:56 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	25.9	ug/m3	22.3	8.3	3.7		02/14/23 18:34	67-64-1	
Benzene	2.7	ug/m3	1.2	0.41	3.7		02/14/23 18:34	71-43-2	
Benzyl chloride	<2.8	ug/m3	9.7	2.8	3.7		02/14/23 18:34	100-44-7	
Bromodichloromethane	95.5	ug/m3	5.0	1.2	3.7		02/14/23 18:34	75-27-4	
Bromoform	<2.9	ug/m3	19.4	2.9	3.7		02/14/23 18:34	75-25-2	
Bromomethane	<1.1	ug/m3	2.9	1.1	3.7		02/14/23 18:34	74-83-9	
1,3-Butadiene	<0.41	ug/m3	1.7	0.41	3.7		02/14/23 18:34	106-99-0	
2-Butanone (MEK)	2.6J	ug/m3	11.1	1.4	3.7		02/14/23 18:34	78-93-3	
Carbon disulfide	12.3	ug/m3	2.3	0.87	3.7		02/14/23 18:34	75-15-0	
Carbon tetrachloride	123	ug/m3	11.8	1.6	3.7		02/14/23 18:34	56-23-5	SS
Chlorobenzene	<0.51	ug/m3	3.5	0.51	3.7		02/14/23 18:34	108-90-7	
Chloroethane	<0.76	ug/m3	2.0	0.76	3.7		02/14/23 18:34	75-00-3	
Chloroform	519	ug/m3	1.8	0.50	3.7		02/14/23 18:34	67-66-3	
Chloromethane	1.9	ug/m3	1.6	0.33	3.7		02/14/23 18:34	74-87-3	
Cyclohexane	<0.50	ug/m3	6.5	0.50	3.7		02/14/23 18:34	110-82-7	
Dibromochloromethane	22.5	ug/m3	6.4	1.3	3.7		02/14/23 18:34	124-48-1	
1,2-Dibromoethane (EDB)	<1.1	ug/m3	2.9	1.1	3.7		02/14/23 18:34	106-93-4	
1,2-Dichlorobenzene	<3.2	ug/m3	11.3	3.2	3.7		02/14/23 18:34	95-50-1	

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: **SG-013123-TP-007** Lab ID: **10641962004** Collected: 01/31/23 11:56 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<3.0	ug/m3	11.3	3.0	3.7		02/14/23 18:34	541-73-1	
1,4-Dichlorobenzene	<3.0	ug/m3	11.3	3.0	3.7		02/14/23 18:34	106-46-7	
Dichlorodifluoromethane	<1.9	ug/m3	3.7	1.9	3.7		02/14/23 18:34	75-71-8	
1,1-Dichloroethane	10.9	ug/m3	3.0	0.40	3.7		02/14/23 18:34	75-34-3	
1,2-Dichloroethane	<0.47	ug/m3	3.0	0.47	3.7		02/14/23 18:34	107-06-2	
1,1-Dichloroethene	37.1	ug/m3	3.0	0.61	3.7		02/14/23 18:34	75-35-4	
cis-1,2-Dichloroethene	76.9	ug/m3	3.0	0.79	3.7		02/14/23 18:34	156-59-2	
trans-1,2-Dichloroethene	2.9J	ug/m3	3.0	1.5	3.7		02/14/23 18:34	156-60-5	
1,2-Dichloropropane	<0.74	ug/m3	3.5	0.74	3.7		02/14/23 18:34	78-87-5	
cis-1,3-Dichloropropene	<2.4	ug/m3	8.5	2.4	3.7		02/14/23 18:34	10061-01-5	
trans-1,3-Dichloropropene	<2.9	ug/m3	8.5	2.9	3.7		02/14/23 18:34	10061-02-6	
Dichlorotetrafluoroethane	<0.90	ug/m3	5.3	0.90	3.7		02/14/23 18:34	76-14-2	
Ethanol	17.8	ug/m3	7.1	3.3	3.7		02/14/23 18:34	64-17-5	
Ethyl acetate	<0.59	ug/m3	2.7	0.59	3.7		02/14/23 18:34	141-78-6	
Ethylbenzene	<0.66	ug/m3	3.3	0.66	3.7		02/14/23 18:34	100-41-4	
4-Ethyltoluene	<1.5	ug/m3	9.2	1.5	3.7		02/14/23 18:34	622-96-8	
n-Heptane	8.9	ug/m3	3.1	0.48	3.7		02/14/23 18:34	142-82-5	
Hexachloro-1,3-butadiene	<6.5	ug/m3	20.1	6.5	3.7		02/14/23 18:34	87-68-3	
n-Hexane	22.2	ug/m3	2.6	0.86	3.7		02/14/23 18:34	110-54-3	
2-Hexanone	<2.5	ug/m3	15.4	2.5	3.7		02/14/23 18:34	591-78-6	
Isopropylbenzene (Cumene)	<2.2	ug/m3	9.2	2.2	3.7		02/14/23 18:34	98-82-8	
Methylene Chloride	59.3	ug/m3	13.1	0.46	3.7		02/14/23 18:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2.0	ug/m3	15.4	2.0	3.7		02/14/23 18:34	108-10-1	
Methyl-tert-butyl ether	<0.92	ug/m3	13.5	0.92	3.7		02/14/23 18:34	1634-04-4	
Naphthalene	<7.7	ug/m3	9.8	7.7	3.7		02/14/23 18:34	91-20-3	
2-Propanol	4.6J	ug/m3	9.2	3.5	3.7		02/14/23 18:34	67-63-0	
Propylene	119	ug/m3	3.2	1.3	3.7		02/14/23 18:34	115-07-1	
Styrene	<1.5	ug/m3	3.2	1.5	3.7		02/14/23 18:34	100-42-5	
1,1,2,2-Tetrachloroethane	<1.1	ug/m3	5.2	1.1	3.7		02/14/23 18:34	79-34-5	
Tetrachloroethene	17.7	ug/m3	2.5	0.92	3.7		02/14/23 18:34	127-18-4	
Tetrahydrofuran	17.3	ug/m3	2.2	0.69	3.7		02/14/23 18:34	109-99-9	
THC as Gas	5970	ug/m3	781	392	3.7		02/14/23 18:34		
Toluene	1.6J	ug/m3	2.8	0.60	3.7		02/14/23 18:34	108-88-3	
1,2,4-Trichlorobenzene	<21.2	ug/m3	27.9	21.2	3.7		02/14/23 18:34	120-82-1	
1,1,1-Trichloroethane	152	ug/m3	4.1	0.67	3.7		02/14/23 18:34	71-55-6	
1,1,2-Trichloroethane	<0.95	ug/m3	2.1	0.95	3.7		02/14/23 18:34	79-00-5	
Trichloroethene	4030	ug/m3	80.7	35.3	147.8		02/16/23 16:39	79-01-6	
Trichlorofluoromethane	0.92J	ug/m3	4.2	0.75	3.7		02/14/23 18:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	5.8	0.84	3.7		02/14/23 18:34	76-13-1	
1,2,4-Trimethylbenzene	<1.3	ug/m3	3.7	1.3	3.7		02/14/23 18:34	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/m3	3.7	1.0	3.7		02/14/23 18:34	108-67-8	
Vinyl acetate	<0.65	ug/m3	2.6	0.65	3.7		02/14/23 18:34	108-05-4	
Vinyl chloride	7.7	ug/m3	0.96	0.35	3.7		02/14/23 18:34	75-01-4	
m&p-Xylene	<1.8	ug/m3	6.5	1.8	3.7		02/14/23 18:34	179601-23-1	
o-Xylene	<0.66	ug/m3	3.3	0.66	3.7		02/14/23 18:34	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: IA-013123-TP-008 Lab ID: 10641962005 Collected: 01/31/23 11:54 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	5.8J	ug/m3	8.8	3.3	1.46		02/14/23 19:09	67-64-1	
Benzene	1.1	ug/m3	0.47	0.16	1.46		02/14/23 19:09	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.46		02/14/23 19:09	100-44-7	
Bromodichloromethane	<0.47	ug/m3	2.0	0.47	1.46		02/14/23 19:09	75-27-4	
Bromoform	<1.1	ug/m3	7.7	1.1	1.46		02/14/23 19:09	75-25-2	
Bromomethane	<0.43	ug/m3	1.2	0.43	1.46		02/14/23 19:09	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.66	0.16	1.46		02/14/23 19:09	106-99-0	
2-Butanone (MEK)	<0.55	ug/m3	4.4	0.55	1.46		02/14/23 19:09	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.92	0.34	1.46		02/14/23 19:09	75-15-0	
Carbon tetrachloride	3.3J	ug/m3	4.7	0.61	1.46		02/14/23 19:09	56-23-5	SS
Chlorobenzene	<0.20	ug/m3	1.4	0.20	1.46		02/14/23 19:09	108-90-7	
Chloroethane	<0.30	ug/m3	0.78	0.30	1.46		02/14/23 19:09	75-00-3	
Chloroform	0.54J	ug/m3	0.72	0.20	1.46		02/14/23 19:09	67-66-3	
Chloromethane	<0.13	ug/m3	0.61	0.13	1.46		02/14/23 19:09	74-87-3	
Cyclohexane	0.98J	ug/m3	2.6	0.20	1.46		02/14/23 19:09	110-82-7	
Dibromochloromethane	<0.53	ug/m3	2.5	0.53	1.46		02/14/23 19:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.45	ug/m3	1.1	0.45	1.46		02/14/23 19:09	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	4.5	1.3	1.46		02/14/23 19:09	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:09	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:09	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.75	1.46		02/14/23 19:09	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.46		02/14/23 19:09	75-34-3	
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 19:09	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.46		02/14/23 19:09	75-35-4	
cis-1,2-Dichloroethene	0.76J	ug/m3	1.2	0.31	1.46		02/14/23 19:09	156-59-2	
trans-1,2-Dichloroethene	<0.61	ug/m3	1.2	0.61	1.46		02/14/23 19:09	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.46		02/14/23 19:09	78-87-5	
cis-1,3-Dichloropropene	<0.95	ug/m3	3.4	0.95	1.46		02/14/23 19:09	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.4	1.1	1.46		02/14/23 19:09	10061-02-6	
Dichlorotetrafluoroethane	<0.35	ug/m3	2.1	0.35	1.46		02/14/23 19:09	76-14-2	
Ethanol	121	ug/m3	2.8	1.3	1.46		02/14/23 19:09	64-17-5	
Ethyl acetate	3.7	ug/m3	1.1	0.23	1.46		02/14/23 19:09	141-78-6	
Ethylbenzene	0.68J	ug/m3	1.3	0.26	1.46		02/14/23 19:09	100-41-4	
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.46		02/14/23 19:09	622-96-8	
n-Heptane	1.0J	ug/m3	1.2	0.19	1.46		02/14/23 19:09	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.9	2.6	1.46		02/14/23 19:09	87-68-3	
n-Hexane	2.5	ug/m3	1.0	0.34	1.46		02/14/23 19:09	110-54-3	
2-Hexanone	<1.0	ug/m3	6.1	1.0	1.46		02/14/23 19:09	591-78-6	
Isopropylbenzene (Cumene)	<0.85	ug/m3	3.6	0.85	1.46		02/14/23 19:09	98-82-8	
Methylene Chloride	0.23J	ug/m3	5.2	0.18	1.46		02/14/23 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.1	0.79	1.46		02/14/23 19:09	108-10-1	
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.46		02/14/23 19:09	1634-04-4	
Naphthalene	<3.1	ug/m3	3.9	3.1	1.46		02/14/23 19:09	91-20-3	
2-Propanol	3.8	ug/m3	3.6	1.4	1.46		02/14/23 19:09	67-63-0	
Propylene	<0.52	ug/m3	1.3	0.52	1.46		02/14/23 19:09	115-07-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: IA-013123-TP-008 **Lab ID: 10641962005** Collected: 01/31/23 11:54 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.61	ug/m3	1.3	0.61	1.46		02/14/23 19:09	100-42-5	
1,1,2,2-Tetrachloroethane	<0.42	ug/m3	2.0	0.42	1.46		02/14/23 19:09	79-34-5	
Tetrachloroethene	<0.36	ug/m3	1.0	0.36	1.46		02/14/23 19:09	127-18-4	
Tetrahydrofuran	<0.27	ug/m3	0.88	0.27	1.46		02/14/23 19:09	109-99-9	
THC as Gas	285J	ug/m3	308	155	1.46		02/14/23 19:09		
Toluene	4.5	ug/m3	1.1	0.24	1.46		02/14/23 19:09	108-88-3	
1,2,4-Trichlorobenzene	<8.4	ug/m3	11.0	8.4	1.46		02/14/23 19:09	120-82-1	
1,1,1-Trichloroethane	1.1J	ug/m3	1.6	0.26	1.46		02/14/23 19:09	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.81	0.38	1.46		02/14/23 19:09	79-00-5	
Trichloroethene	28.1	ug/m3	0.80	0.35	1.46		02/14/23 19:09	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.7	0.29	1.46		02/14/23 19:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.40J	ug/m3	2.3	0.33	1.46		02/14/23 19:09	76-13-1	
1,2,4-Trimethylbenzene	0.93J	ug/m3	1.5	0.51	1.46		02/14/23 19:09	95-63-6	
1,3,5-Trimethylbenzene	0.41J	ug/m3	1.5	0.40	1.46		02/14/23 19:09	108-67-8	
Vinyl acetate	<0.26	ug/m3	1.0	0.26	1.46		02/14/23 19:09	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.38	0.14	1.46		02/14/23 19:09	75-01-4	
m&p-Xylene	2.6	ug/m3	2.6	0.72	1.46		02/14/23 19:09	179601-23-1	
o-Xylene	0.96J	ug/m3	1.3	0.26	1.46		02/14/23 19:09	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

QC Batch: 867360

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641962001, 10641962002, 10641962003, 10641962004, 10641962005

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641962001, 10641962002, 10641962003, 10641962004, 10641962005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	0.18	02/14/23 10:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	0.29	02/14/23 10:28	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	0.26	02/14/23 10:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	0.23	02/14/23 10:28	
1,1-Dichloroethane	ug/m3	<0.11	0.82	0.11	02/14/23 10:28	
1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	0.35	02/14/23 10:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,2-Dichloroethane	ug/m3	<0.13	0.82	0.13	02/14/23 10:28	
1,2-Dichloropropane	ug/m3	<0.20	0.94	0.20	02/14/23 10:28	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	0.82	02/14/23 10:28	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	02/14/23 10:28	
2-Butanone (MEK)	ug/m3	<0.38	3.0	0.38	02/14/23 10:28	
2-Hexanone	ug/m3	<0.69	4.2	0.69	02/14/23 10:28	
2-Propanol	ug/m3	<0.96	2.5	0.96	02/14/23 10:28	
4-Ethyltoluene	ug/m3	<0.41	2.5	0.41	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	0.54	02/14/23 10:28	
Acetone	ug/m3	<2.2	6.0	2.2	02/14/23 10:28	
Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Benzyl chloride	ug/m3	<0.77	2.6	0.77	02/14/23 10:28	
Bromodichloromethane	ug/m3	<0.32	1.4	0.32	02/14/23 10:28	
Bromoform	ug/m3	<0.78	5.2	0.78	02/14/23 10:28	
Bromomethane	ug/m3	<0.30	0.79	0.30	02/14/23 10:28	
Carbon disulfide	ug/m3	<0.23	0.63	0.23	02/14/23 10:28	
Carbon tetrachloride	ug/m3	<0.42	3.2	0.42	02/14/23 10:28	
Chlorobenzene	ug/m3	<0.14	0.94	0.14	02/14/23 10:28	
Chloroethane	ug/m3	<0.20	0.54	0.20	02/14/23 10:28	
Chloroform	ug/m3	<0.13	0.50	0.13	02/14/23 10:28	
Chloromethane	ug/m3	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	0.21	02/14/23 10:28	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	0.65	02/14/23 10:28	
Cyclohexane	ug/m3	<0.13	1.8	0.13	02/14/23 10:28	
Dibromochloromethane	ug/m3	<0.36	1.7	0.36	02/14/23 10:28	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	0.51	02/14/23 10:28	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	0.24	02/14/23 10:28	
Ethanol	ug/m3	<0.90	1.9	0.90	02/14/23 10:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641962001, 10641962002, 10641962003, 10641962004, 10641962005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.16	0.73	0.16	02/14/23 10:28	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	1.8	02/14/23 10:28	
Isopropylbenzene (Cumene)	ug/m3	<0.58	2.5	0.58	02/14/23 10:28	
m&p-Xylene	ug/m3	<0.49	1.8	0.49	02/14/23 10:28	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	0.25	02/14/23 10:28	
Methylene Chloride	ug/m3	<0.12	3.5	0.12	02/14/23 10:28	
n-Heptane	ug/m3	0.13J	0.83	0.13	02/14/23 10:28	
n-Hexane	ug/m3	<0.23	0.72	0.23	02/14/23 10:28	
Naphthalene	ug/m3	<2.1	2.7	2.1	02/14/23 10:28	
o-Xylene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Propylene	ug/m3	<0.36	0.88	0.36	02/14/23 10:28	
Styrene	ug/m3	<0.42	0.87	0.42	02/14/23 10:28	
Tetrachloroethene	ug/m3	<0.25	0.69	0.25	02/14/23 10:28	
Tetrahydrofuran	ug/m3	<0.19	0.60	0.19	02/14/23 10:28	
THC as Gas	ug/m3	<106	211	106	02/14/23 10:28	
Toluene	ug/m3	<0.16	0.77	0.16	02/14/23 10:28	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	0.42	02/14/23 10:28	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Trichloroethene	ug/m3	<0.24	0.55	0.24	02/14/23 10:28	
Trichlorofluoromethane	ug/m3	<0.20	1.1	0.20	02/14/23 10:28	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	02/14/23 10:28	
Vinyl chloride	ug/m3	<0.096	0.26	0.096	02/14/23 10:28	

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	51.8	89	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1,1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1,1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
1,2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
1,2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
1,3-Butadiene	ug/m3	23.9	20.7	86	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
2-Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
4-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
Acetone	ug/m3	127	103	81	65-131	
Benzene	ug/m3	33.8	30.6	91	70-130	
Benzyl chloride	ug/m3	55.6	55.0	99	70-130	
Bromodichloromethane	ug/m3	71.5	68.0	95	70-132	
Bromoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
Carbon disulfide	ug/m3	33	30.2	92	70-131	
Carbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
Chlorobenzene	ug/m3	49	48.3	99	70-133	
Chloroethane	ug/m3	28.1	21.3	76	64-140	
Chloroform	ug/m3	52.1	46.9	90	70-133	
Chloromethane	ug/m3	22	18.7	85	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Cyclohexane	ug/m3	36.4	30.8	85	70-134	
Dibromochloromethane	ug/m3	90.6	91.7	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
Ethanol	ug/m3	113	87.9	78	65-130	
Ethyl acetate	ug/m3	38.4	39.0	101	70-134	
Ethylbenzene	ug/m3	46.2	42.9	93	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
m&p-Xylene	ug/m3	92.4	82.1	89	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
n-Heptane	ug/m3	43.5	35.0	81	69-140	
n-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	40.8	89	70-132	
Propylene	ug/m3	18.6	15.0	81	69-130	
Styrene	ug/m3	45.3	48.4	107	70-136	
Tetrachloroethene	ug/m3	72	69.2	96	70-139	
Tetrahydrofuran	ug/m3	31.3	26.8	85	70-139	
THC as Gas	ug/m3	5050	5700	113	70-136	
Toluene	ug/m3	40.2	36.1	90	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
Trichloroethene	ug/m3	57.2	56.8	99	70-132	
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
Vinyl acetate	ug/m3	38.7	40.9	106	70-131	
Vinyl chloride	ug/m3	27.2	23.8	87	64-136	

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43			25
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38			25
1,1,2-Trichlorotrifluoroethane	ug/m3	0.44J	0.42J			25
1,1-Dichloroethane	ug/m3	<0.16	<0.16			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5			25
1,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J			25
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46			25
1,2-Dichlorobenzene	ug/m3	<1.3	<1.3			25
1,2-Dichloroethane	ug/m3	<0.19	<0.19			25
1,2-Dichloropropane	ug/m3	<0.30	<0.30			25
1,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41			25
1,3-Butadiene	ug/m3	<0.17	<0.17			25
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2			25
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2			25
2-Butanone (MEK)	ug/m3	2.7J	2.6J			25
2-Hexanone	ug/m3	<1.0	<1.0			25
2-Propanol	ug/m3	13.9	12.9	8		25
4-Ethyltoluene	ug/m3	<0.61	<0.61			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80			25
Acetone	ug/m3	13.2	12.5	6		25
Benzene	ug/m3	2.0	2.0	4		25
Benzyl chloride	ug/m3	<1.1	<1.1			25
Bromodichloromethane	ug/m3	0.60J	0.55J			25
Bromoform	ug/m3	<1.2	<1.2			25
Bromomethane	ug/m3	<0.44	<0.44			25
Carbon disulfide	ug/m3	<0.35	<0.35			25
Carbon tetrachloride	ug/m3	2.7J	2.6J			25
Chlorobenzene	ug/m3	<0.21	<0.21			25
Chloroethane	ug/m3	<0.31	<0.31			25
Chloroform	ug/m3	1.5	1.4	7		25
Chloromethane	ug/m3	2.1	2.0	8		25
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32			25
cis-1,3-Dichloropropene	ug/m3	<0.97	<0.97			25
Cyclohexane	ug/m3	<0.20	<0.20			25
Dibromochloromethane	ug/m3	<0.54	<0.54			25
Dichlorodifluoromethane	ug/m3	1.8	1.6	11		25
Dichlorotetrafluoroethane	ug/m3	<0.36	<0.36			25
Ethanol	ug/m3	132	127	4		25
Ethyl acetate	ug/m3	2.6	2.4	6		25
Ethylbenzene	ug/m3	0.68J	0.67J			25
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6			25
Isopropylbenzene (Cumene)	ug/m3	<0.87	<0.87			25
m&p-Xylene	ug/m3	2.5J	2.4J			25
Methyl-tert-butyl ether	ug/m3	<0.37	<0.37			25
Methylene Chloride	ug/m3	0.40J	0.37J			25

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ug/m3	0.82J	0.83J		25	
n-Hexane	ug/m3	0.61J	0.59J		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.68J	0.68J		25	
Propylene	ug/m3	5.9	5.5	8	25	
Styrene	ug/m3	0.77J	0.73J		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Tetrahydrofuran	ug/m3	1.1	1.1	7	25	
THC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<1.2	<1.2		25	
Trichloroethene	ug/m3	6.1	5.7	7	25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.26	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.38J	0.44J		25	
1,1-Dichloroethane	ug/m3	<0.15	<0.15		25	
1,1-Dichloroethene	ug/m3	<0.23	<0.23		25	
1,2,4-Trichlorobenzene	ug/m3	<8.1	<8.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.49	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44		25	
1,2-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,2-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,2-Dichloropropane	ug/m3	<0.28	<0.28		25	
1,3,5-Trimethylbenzene	ug/m3	<0.39	<0.39		25	
1,3-Butadiene	ug/m3	<0.16	<0.16		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<0.97	<0.97		25	
2-Propanol	ug/m3	69.4	71.8	3	25	
4-Ethyltoluene	ug/m3	<0.57	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.76	<0.76		25	
Acetone	ug/m3	18.8	19.4	3	25	
Benzene	ug/m3	0.56	0.55	2	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	<0.45	<0.45		25	

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QUALITY CONTROL DATA

Project: 12584838-03 CMW

Pace Project No.: 10641962

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/m3	<1.1	<1.1		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.59	<0.59		25	
Chlorobenzene	ug/m3	<0.20	<0.20		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	0.33J	0.34J		25	
Chloromethane	ug/m3	0.64	0.67	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.92	<0.92		25	
Cyclohexane	ug/m3	<0.19	<0.19		25	
Dibromochloromethane	ug/m3	<0.51	<0.51		25	
Dichlorodifluoromethane	ug/m3	1.5	1.7	10	25	
Dichlorotetrafluoroethane	ug/m3	<0.34	<0.34		25	
Ethanol	ug/m3	17.1	16.8	2	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
Isopropylbenzene (Cumene)	ug/m3	<0.82	<0.82		25	
m&p-Xylene	ug/m3	<0.69	<0.69		25	
Methyl-tert-butyl ether	ug/m3	<0.35	<0.35		25	
Methylene Chloride	ug/m3	0.21J	0.23J		25	
n-Heptane	ug/m3	0.27J	0.26J		25	
n-Hexane	ug/m3	<0.33	<0.33		25	
Naphthalene	ug/m3	<2.9	<2.9		25	
o-Xylene	ug/m3	<0.25	<0.25		25	
Propylene	ug/m3	0.99J	1.1J		25	
Styrene	ug/m3	<0.59	<0.59		25	
Tetrachloroethene	ug/m3	<0.35	<0.35		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
THC as Gas	ug/m3	<149	<149		25	
Toluene	ug/m3	1.3	1.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.59	<0.59		25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

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QUALIFIERS

Project: 12584838-03 CMW

Pace Project No.: 10641962

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 CMW

Pace Project No.: 10641962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10641962001	AC-013123-TP-004	TO-15	867360		
10641962002	IA-013123-TP-005	TO-15	867360		
10641962003	IA-013123-TP-006	TO-15	867360		
10641962004	SG-013123-TP-007	TO-15	867360		
10641962005	IA-013123-TP-008	TO-15	867360		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

58341

Section A Required Client Information: Company: <u>GHA</u> Address: <u>6520 Corporate Drive</u> <u>Indianapolis, IN</u> Email To: _____ Phone: _____ Fax: _____ Requested Due Date/TAT: <u>Starboard</u>		Section B Required Project Information: Report To: <u>Mike R. Lindson</u> Copy To: <u>Kyle Amberges</u> Purchase Order No.: _____ Project Name: <u>COM</u> Project Number: <u>17-181838-03</u>		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____			
Valid Media Codes MEDIA Teiler Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other		Reporting Units Location of Sampling by State: <u>IN</u> ug/m ³ _____ PPBV _____ Other _____			
Report Level II _____ III _____ IV _____ Other _____		Method:			

ITEM #	Media Code	PID Reading (Client only)	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Pace Lab ID
			COMPOSITE START	COMPOSITE - END/DOB					
	DATE	TIME	DATE	TIME					
1	AL-013123-TP-004	666	1/30/23	1212	1/31/23	1159	3589	2097	001
2	IA-013123-TP-005	666	1/30/23	1213	1/31/23	1155	2809	2175	002
3	IA-013123-TP-006	666	1/30/23	1213	1/31/23	1155	2114	2084	003
4	SG-013123-TP-007	666	1/30/23	1214	1/31/23	1156	3425	0363	004
5	IA-013123-TP-008	666	1/30/23	1216	1/31/23	1157	3646	2164	005
6									
7									
8									
9									
10									
11									
12									

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>Mike Lindson</u>	<u>1/30/23</u>	<u>16:00</u>	<u>Matt Amberges</u>	<u>2-6-23</u>	<u>12:37</u>	Temp in °C _____ Received on _____ Y/N Ice _____ Y/N Custody Sealed Cooler _____ Y/N Samples Intact _____ Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Therese L. Pearson

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY) _____

WO#: 10641962

10641962



DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon Receipt

Client Name: GHD

Project #:

WO#: 10641962

PM: CT1

Due Date: 02/20/23

CLIENT: CRA_INDY

Courier: [X] FedEx [] UPS [] USPS [] Client [] Pace [] SpeeDee [] Commercial

Tracking Number: [] See Exception [X]

Custody Seal on Cooler/Box Present? [] Yes [X] No

Seals Intact? [] Yes [] No

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other:

Date & Initials of Person Examining Contents: 2-7-23 MI

Comments:

Table with 5 columns: Question, Yes, No, N/A, and Comments. Rows include Chain of Custody Present?, Chain of Custody Filled Out?, Chain of Custody Relinquished?, Sampler Name and/or Signature on COC?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Media: Air Can | Airbag, Is sufficient information available to reconcile samples to the COC?, Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)

Gauge #: [] 10AIR26 [] 10AIR34 [] 10AIR35 [] 10AIR17 [] 10AIR47 [X] 10AIR48

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure, Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples 004 through 008.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review:

Carolynne Trout

Date: 2/8/23

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).



DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No	
			If yes, indicate who was contacted/date/time. If no, indicate reason why.	

Multiple Cooler Project? Yes No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
61018741	2062
	2073
	2084
	2095

Issue Type:		Container Type	# of Containers
Sample ID			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

February 20, 2023

Michael Richardson
GHD Services
6520 Corporate Dr.
Indianapolis, IN 46278

RE: Project: 12584838-03
Pace Project No.: 10641967

Dear Michael Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Amberger, GHD
Matthew Groves, GHD Services
Jonathon Lang, GHD Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12584838-03

Pace Project No.: 10641967

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 12584838-03

Pace Project No.: 10641967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10641967001	AC-013123-TP-011	Air	01/31/23 13:00	02/06/23 12:37
10641967002	IA-013123-TP-012	Air	01/31/23 12:59	02/06/23 12:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12584838-03

Pace Project No.: 10641967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10641967001	AC-013123-TP-011	TO-15	MJL	63	PASI-M
10641967002	IA-013123-TP-012	TO-15	MJL	63	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 12584838-03

Pace Project No.: 10641967

Method: TO-15

Description: TO15 MSV AIR

Client: GHD Services_AIR

Date: February 20, 2023

General Information:

2 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 867360

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- IA-013123-TP-012 (Lab ID: 10641967002)
 - Carbon tetrachloride
- LCS (Lab ID: 4576606)
 - Carbon tetrachloride

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641967

Sample: AC-013123-TP-011 Lab ID: 10641967001 Collected: 01/31/23 13:00 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	4.7J	ug/m3	8.4	3.1	1.39		02/14/23 20:52	67-64-1	
Benzene	0.89	ug/m3	0.45	0.15	1.39		02/14/23 20:52	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.7	1.1	1.39		02/14/23 20:52	100-44-7	
Bromodichloromethane	<0.44	ug/m3	1.9	0.44	1.39		02/14/23 20:52	75-27-4	
Bromoform	<1.1	ug/m3	7.3	1.1	1.39		02/14/23 20:52	75-25-2	
Bromomethane	<0.41	ug/m3	1.1	0.41	1.39		02/14/23 20:52	74-83-9	
1,3-Butadiene	<0.15	ug/m3	0.63	0.15	1.39		02/14/23 20:52	106-99-0	
2-Butanone (MEK)	<0.52	ug/m3	4.2	0.52	1.39		02/14/23 20:52	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.88	0.33	1.39		02/14/23 20:52	75-15-0	
Carbon tetrachloride	<0.58	ug/m3	4.4	0.58	1.39		02/14/23 20:52	56-23-5	
Chlorobenzene	<0.19	ug/m3	1.3	0.19	1.39		02/14/23 20:52	108-90-7	
Chloroethane	<0.28	ug/m3	0.75	0.28	1.39		02/14/23 20:52	75-00-3	
Chloroform	<0.19	ug/m3	0.69	0.19	1.39		02/14/23 20:52	67-66-3	
Chloromethane	0.93	ug/m3	0.58	0.12	1.39		02/14/23 20:52	74-87-3	
Cyclohexane	<0.19	ug/m3	2.4	0.19	1.39		02/14/23 20:52	110-82-7	
Dibromochloromethane	<0.50	ug/m3	2.4	0.50	1.39		02/14/23 20:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.43	ug/m3	1.1	0.43	1.39		02/14/23 20:52	106-93-4	
1,2-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.39		02/14/23 20:52	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 20:52	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 20:52	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.71	1.39		02/14/23 20:52	75-71-8	
1,1-Dichloroethane	0.17J	ug/m3	1.1	0.15	1.39		02/14/23 20:52	75-34-3	
1,2-Dichloroethane	<0.18	ug/m3	1.1	0.18	1.39		02/14/23 20:52	107-06-2	
1,1-Dichloroethene	0.47J	ug/m3	1.1	0.23	1.39		02/14/23 20:52	75-35-4	
cis-1,2-Dichloroethene	<0.30	ug/m3	1.1	0.30	1.39		02/14/23 20:52	156-59-2	
trans-1,2-Dichloroethene	<0.58	ug/m3	1.1	0.58	1.39		02/14/23 20:52	156-60-5	
1,2-Dichloropropane	<0.28	ug/m3	1.3	0.28	1.39		02/14/23 20:52	78-87-5	
cis-1,3-Dichloropropene	<0.91	ug/m3	3.2	0.91	1.39		02/14/23 20:52	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.2	1.1	1.39		02/14/23 20:52	10061-02-6	
Dichlorotetrafluoroethane	<0.34	ug/m3	2.0	0.34	1.39		02/14/23 20:52	76-14-2	
Ethanol	20.0	ug/m3	2.7	1.3	1.39		02/14/23 20:52	64-17-5	
Ethyl acetate	0.25J	ug/m3	1.0	0.22	1.39		02/14/23 20:52	141-78-6	
Ethylbenzene	<0.25	ug/m3	1.2	0.25	1.39		02/14/23 20:52	100-41-4	
4-Ethyltoluene	<0.57	ug/m3	3.5	0.57	1.39		02/14/23 20:52	622-96-8	
n-Heptane	0.66J	ug/m3	1.2	0.18	1.39		02/14/23 20:52	142-82-5	
Hexachloro-1,3-butadiene	<2.4	ug/m3	7.5	2.4	1.39		02/14/23 20:52	87-68-3	
n-Hexane	0.88J	ug/m3	1.0	0.32	1.39		02/14/23 20:52	110-54-3	
2-Hexanone	<0.96	ug/m3	5.8	0.96	1.39		02/14/23 20:52	591-78-6	
Isopropylbenzene (Cumene)	<0.81	ug/m3	3.5	0.81	1.39		02/14/23 20:52	98-82-8	
Methylene Chloride	0.25J	ug/m3	4.9	0.17	1.39		02/14/23 20:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	5.8	0.75	1.39		02/14/23 20:52	108-10-1	
Methyl-tert-butyl ether	<0.35	ug/m3	5.1	0.35	1.39		02/14/23 20:52	1634-04-4	
Naphthalene	<2.9	ug/m3	3.7	2.9	1.39		02/14/23 20:52	91-20-3	
2-Propanol	6.5	ug/m3	3.5	1.3	1.39		02/14/23 20:52	67-63-0	
Propylene	<0.50	ug/m3	1.2	0.50	1.39		02/14/23 20:52	115-07-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641967

Sample: AC-013123-TP-011 Lab ID: 10641967001 Collected: 01/31/23 13:00 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.58	ug/m3	1.2	0.58	1.39		02/14/23 20:52	100-42-5	
1,1,2,2-Tetrachloroethane	<0.40	ug/m3	1.9	0.40	1.39		02/14/23 20:52	79-34-5	
Tetrachloroethene	<0.34	ug/m3	0.96	0.34	1.39		02/14/23 20:52	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.83	0.26	1.39		02/14/23 20:52	109-99-9	
THC as Gas	<147	ug/m3	293	147	1.39		02/14/23 20:52		
Toluene	1.4	ug/m3	1.1	0.23	1.39		02/14/23 20:52	108-88-3	
1,2,4-Trichlorobenzene	<8.0	ug/m3	10.5	8.0	1.39		02/14/23 20:52	120-82-1	
1,1,1-Trichloroethane	0.53J	ug/m3	1.5	0.25	1.39		02/14/23 20:52	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.77	0.36	1.39		02/14/23 20:52	79-00-5	
Trichloroethene	39.2	ug/m3	0.76	0.33	1.39		02/14/23 20:52	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.28	1.39		02/14/23 20:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.43J	ug/m3	2.2	0.32	1.39		02/14/23 20:52	76-13-1	
1,2,4-Trimethylbenzene	<0.49	ug/m3	1.4	0.49	1.39		02/14/23 20:52	95-63-6	
1,3,5-Trimethylbenzene	<0.38	ug/m3	1.4	0.38	1.39		02/14/23 20:52	108-67-8	
Vinyl acetate	<0.24	ug/m3	1.0	0.24	1.39		02/14/23 20:52	108-05-4	
Vinyl chloride	<0.13	ug/m3	0.36	0.13	1.39		02/14/23 20:52	75-01-4	
m&p-Xylene	0.72J	ug/m3	2.5	0.68	1.39		02/14/23 20:52	179601-23-1	
o-Xylene	<0.25	ug/m3	1.2	0.25	1.39		02/14/23 20:52	95-47-6	

Sample: IA-013123-TP-012 Lab ID: 10641967002 Collected: 01/31/23 12:59 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	15.5	ug/m3	8.8	3.3	1.46		02/14/23 21:27	67-64-1	
Benzene	2.2	ug/m3	0.47	0.16	1.46		02/14/23 21:27	71-43-2	
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.46		02/14/23 21:27	100-44-7	
Bromodichloromethane	<0.47	ug/m3	2.0	0.47	1.46		02/14/23 21:27	75-27-4	
Bromoform	<1.1	ug/m3	7.7	1.1	1.46		02/14/23 21:27	75-25-2	
Bromomethane	<0.43	ug/m3	1.2	0.43	1.46		02/14/23 21:27	74-83-9	
1,3-Butadiene	<0.16	ug/m3	0.66	0.16	1.46		02/14/23 21:27	106-99-0	
2-Butanone (MEK)	2.1J	ug/m3	4.4	0.55	1.46		02/14/23 21:27	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.92	0.34	1.46		02/14/23 21:27	75-15-0	
Carbon tetrachloride	2.6J	ug/m3	4.7	0.61	1.46		02/14/23 21:27	56-23-5	SS
Chlorobenzene	<0.20	ug/m3	1.4	0.20	1.46		02/14/23 21:27	108-90-7	
Chloroethane	<0.30	ug/m3	0.78	0.30	1.46		02/14/23 21:27	75-00-3	
Chloroform	0.31J	ug/m3	0.72	0.20	1.46		02/14/23 21:27	67-66-3	
Chloromethane	1.9	ug/m3	0.61	0.13	1.46		02/14/23 21:27	74-87-3	
Cyclohexane	<0.20	ug/m3	2.6	0.20	1.46		02/14/23 21:27	110-82-7	
Dibromochloromethane	<0.53	ug/m3	2.5	0.53	1.46		02/14/23 21:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.45	ug/m3	1.1	0.45	1.46		02/14/23 21:27	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/m3	4.5	1.3	1.46		02/14/23 21:27	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03

Pace Project No.: 10641967

Sample: IA-013123-TP-012 Lab ID: 10641967002 Collected: 01/31/23 12:59 Received: 02/06/23 12:37 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 21:27	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 21:27	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.75	1.46		02/14/23 21:27	75-71-8	
1,1-Dichloroethane	0.23J	ug/m3	1.2	0.16	1.46		02/14/23 21:27	75-34-3	
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 21:27	107-06-2	
1,1-Dichloroethene	0.69J	ug/m3	1.2	0.24	1.46		02/14/23 21:27	75-35-4	
cis-1,2-Dichloroethene	0.33J	ug/m3	1.2	0.31	1.46		02/14/23 21:27	156-59-2	
trans-1,2-Dichloroethene	<0.61	ug/m3	1.2	0.61	1.46		02/14/23 21:27	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.46		02/14/23 21:27	78-87-5	
cis-1,3-Dichloropropene	<0.95	ug/m3	3.4	0.95	1.46		02/14/23 21:27	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/m3	3.4	1.1	1.46		02/14/23 21:27	10061-02-6	
Dichlorotetrafluoroethane	<0.35	ug/m3	2.1	0.35	1.46		02/14/23 21:27	76-14-2	
Ethanol	102	ug/m3	2.8	1.3	1.46		02/14/23 21:27	64-17-5	
Ethyl acetate	0.77J	ug/m3	1.1	0.23	1.46		02/14/23 21:27	141-78-6	
Ethylbenzene	0.57J	ug/m3	1.3	0.26	1.46		02/14/23 21:27	100-41-4	
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.46		02/14/23 21:27	622-96-8	
n-Heptane	1.0J	ug/m3	1.2	0.19	1.46		02/14/23 21:27	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.9	2.6	1.46		02/14/23 21:27	87-68-3	
n-Hexane	1.2	ug/m3	1.0	0.34	1.46		02/14/23 21:27	110-54-3	
2-Hexanone	<1.0	ug/m3	6.1	1.0	1.46		02/14/23 21:27	591-78-6	
Isopropylbenzene (Cumene)	<0.85	ug/m3	3.6	0.85	1.46		02/14/23 21:27	98-82-8	
Methylene Chloride	0.29J	ug/m3	5.2	0.18	1.46		02/14/23 21:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.1	0.79	1.46		02/14/23 21:27	108-10-1	
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.46		02/14/23 21:27	1634-04-4	
Naphthalene	<3.1	ug/m3	3.9	3.1	1.46		02/14/23 21:27	91-20-3	
2-Propanol	8.3	ug/m3	3.6	1.4	1.46		02/14/23 21:27	67-63-0	
Propylene	<0.52	ug/m3	1.3	0.52	1.46		02/14/23 21:27	115-07-1	
Styrene	0.90J	ug/m3	1.3	0.61	1.46		02/14/23 21:27	100-42-5	
1,1,2,2-Tetrachloroethane	<0.42	ug/m3	2.0	0.42	1.46		02/14/23 21:27	79-34-5	
Tetrachloroethene	<0.36	ug/m3	1.0	0.36	1.46		02/14/23 21:27	127-18-4	
Tetrahydrofuran	<0.27	ug/m3	0.88	0.27	1.46		02/14/23 21:27	109-99-9	
THC as Gas	165J	ug/m3	308	155	1.46		02/14/23 21:27		
Toluene	4.5	ug/m3	1.1	0.24	1.46		02/14/23 21:27	108-88-3	
1,2,4-Trichlorobenzene	<8.4	ug/m3	11.0	8.4	1.46		02/14/23 21:27	120-82-1	
1,1,1-Trichloroethane	0.75J	ug/m3	1.6	0.26	1.46		02/14/23 21:27	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.81	0.38	1.46		02/14/23 21:27	79-00-5	
Trichloroethene	54.5	ug/m3	0.80	0.35	1.46		02/14/23 21:27	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.7	0.29	1.46		02/14/23 21:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.47J	ug/m3	2.3	0.33	1.46		02/14/23 21:27	76-13-1	
1,2,4-Trimethylbenzene	<0.51	ug/m3	1.5	0.51	1.46		02/14/23 21:27	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/m3	1.5	0.40	1.46		02/14/23 21:27	108-67-8	
Vinyl acetate	<0.26	ug/m3	1.0	0.26	1.46		02/14/23 21:27	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.38	0.14	1.46		02/14/23 21:27	75-01-4	
m&p-Xylene	2.0J	ug/m3	2.6	0.72	1.46		02/14/23 21:27	179601-23-1	
o-Xylene	0.55J	ug/m3	1.3	0.26	1.46		02/14/23 21:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641967

QC Batch: 867360

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641967001, 10641967002

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641967001, 10641967002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	0.18	02/14/23 10:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	0.29	02/14/23 10:28	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	0.26	02/14/23 10:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	0.23	02/14/23 10:28	
1,1-Dichloroethane	ug/m3	<0.11	0.82	0.11	02/14/23 10:28	
1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	0.35	02/14/23 10:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,2-Dichloroethane	ug/m3	<0.13	0.82	0.13	02/14/23 10:28	
1,2-Dichloropropane	ug/m3	<0.20	0.94	0.20	02/14/23 10:28	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	0.82	02/14/23 10:28	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	02/14/23 10:28	
2-Butanone (MEK)	ug/m3	<0.38	3.0	0.38	02/14/23 10:28	
2-Hexanone	ug/m3	<0.69	4.2	0.69	02/14/23 10:28	
2-Propanol	ug/m3	<0.96	2.5	0.96	02/14/23 10:28	
4-Ethyltoluene	ug/m3	<0.41	2.5	0.41	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	0.54	02/14/23 10:28	
Acetone	ug/m3	<2.2	6.0	2.2	02/14/23 10:28	
Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Benzyl chloride	ug/m3	<0.77	2.6	0.77	02/14/23 10:28	
Bromodichloromethane	ug/m3	<0.32	1.4	0.32	02/14/23 10:28	
Bromoform	ug/m3	<0.78	5.2	0.78	02/14/23 10:28	
Bromomethane	ug/m3	<0.30	0.79	0.30	02/14/23 10:28	
Carbon disulfide	ug/m3	<0.23	0.63	0.23	02/14/23 10:28	
Carbon tetrachloride	ug/m3	<0.42	3.2	0.42	02/14/23 10:28	
Chlorobenzene	ug/m3	<0.14	0.94	0.14	02/14/23 10:28	
Chloroethane	ug/m3	<0.20	0.54	0.20	02/14/23 10:28	
Chloroform	ug/m3	<0.13	0.50	0.13	02/14/23 10:28	
Chloromethane	ug/m3	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	0.21	02/14/23 10:28	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	0.65	02/14/23 10:28	
Cyclohexane	ug/m3	<0.13	1.8	0.13	02/14/23 10:28	
Dibromochloromethane	ug/m3	<0.36	1.7	0.36	02/14/23 10:28	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	0.51	02/14/23 10:28	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	0.24	02/14/23 10:28	
Ethanol	ug/m3	<0.90	1.9	0.90	02/14/23 10:28	

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QUALITY CONTROL DATA

Project: 12584838-03
Pace Project No.: 10641967

METHOD BLANK: 4576605 Matrix: Air

Associated Lab Samples: 10641967001, 10641967002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.16	0.73	0.16	02/14/23 10:28	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	1.8	02/14/23 10:28	
Isopropylbenzene (Cumene)	ug/m3	<0.58	2.5	0.58	02/14/23 10:28	
m&p-Xylene	ug/m3	<0.49	1.8	0.49	02/14/23 10:28	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	0.25	02/14/23 10:28	
Methylene Chloride	ug/m3	<0.12	3.5	0.12	02/14/23 10:28	
n-Heptane	ug/m3	0.13J	0.83	0.13	02/14/23 10:28	
n-Hexane	ug/m3	<0.23	0.72	0.23	02/14/23 10:28	
Naphthalene	ug/m3	<2.1	2.7	2.1	02/14/23 10:28	
o-Xylene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Propylene	ug/m3	<0.36	0.88	0.36	02/14/23 10:28	
Styrene	ug/m3	<0.42	0.87	0.42	02/14/23 10:28	
Tetrachloroethene	ug/m3	<0.25	0.69	0.25	02/14/23 10:28	
Tetrahydrofuran	ug/m3	<0.19	0.60	0.19	02/14/23 10:28	
THC as Gas	ug/m3	<106	211	106	02/14/23 10:28	
Toluene	ug/m3	<0.16	0.77	0.16	02/14/23 10:28	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	0.42	02/14/23 10:28	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Trichloroethene	ug/m3	<0.24	0.55	0.24	02/14/23 10:28	
Trichlorofluoromethane	ug/m3	<0.20	1.1	0.20	02/14/23 10:28	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	02/14/23 10:28	
Vinyl chloride	ug/m3	<0.096	0.26	0.096	02/14/23 10:28	

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	51.8	89	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1,1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1,1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
1,2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
1,2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
1,3-Butadiene	ug/m3	23.9	20.7	86	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
2-Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641967

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
4-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
Acetone	ug/m3	127	103	81	65-131	
Benzene	ug/m3	33.8	30.6	91	70-130	
Benzyl chloride	ug/m3	55.6	55.0	99	70-130	
Bromodichloromethane	ug/m3	71.5	68.0	95	70-132	
Bromoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
Carbon disulfide	ug/m3	33	30.2	92	70-131	
Carbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
Chlorobenzene	ug/m3	49	48.3	99	70-133	
Chloroethane	ug/m3	28.1	21.3	76	64-140	
Chloroform	ug/m3	52.1	46.9	90	70-133	
Chloromethane	ug/m3	22	18.7	85	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Cyclohexane	ug/m3	36.4	30.8	85	70-134	
Dibromochloromethane	ug/m3	90.6	91.7	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
Ethanol	ug/m3	113	87.9	78	65-130	
Ethyl acetate	ug/m3	38.4	39.0	101	70-134	
Ethylbenzene	ug/m3	46.2	42.9	93	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
m&p-Xylene	ug/m3	92.4	82.1	89	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
n-Heptane	ug/m3	43.5	35.0	81	69-140	
n-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	40.8	89	70-132	
Propylene	ug/m3	18.6	15.0	81	69-130	
Styrene	ug/m3	45.3	48.4	107	70-136	
Tetrachloroethene	ug/m3	72	69.2	96	70-139	
Tetrahydrofuran	ug/m3	31.3	26.8	85	70-139	
THC as Gas	ug/m3	5050	5700	113	70-136	
Toluene	ug/m3	40.2	36.1	90	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
Trichloroethene	ug/m3	57.2	56.8	99	70-132	
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
Vinyl acetate	ug/m3	38.7	40.9	106	70-131	
Vinyl chloride	ug/m3	27.2	23.8	87	64-136	

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641967

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43			25
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38			25
1,1,2-Trichlorotrifluoroethane	ug/m3	0.44J	0.42J			25
1,1-Dichloroethane	ug/m3	<0.16	<0.16			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5			25
1,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J			25
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46			25
1,2-Dichlorobenzene	ug/m3	<1.3	<1.3			25
1,2-Dichloroethane	ug/m3	<0.19	<0.19			25
1,2-Dichloropropane	ug/m3	<0.30	<0.30			25
1,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41			25
1,3-Butadiene	ug/m3	<0.17	<0.17			25
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2			25
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2			25
2-Butanone (MEK)	ug/m3	2.7J	2.6J			25
2-Hexanone	ug/m3	<1.0	<1.0			25
2-Propanol	ug/m3	13.9	12.9	8		25
4-Ethyltoluene	ug/m3	<0.61	<0.61			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80			25
Acetone	ug/m3	13.2	12.5	6		25
Benzene	ug/m3	2.0	2.0	4		25
Benzyl chloride	ug/m3	<1.1	<1.1			25
Bromodichloromethane	ug/m3	0.60J	0.55J			25
Bromoform	ug/m3	<1.2	<1.2			25
Bromomethane	ug/m3	<0.44	<0.44			25
Carbon disulfide	ug/m3	<0.35	<0.35			25
Carbon tetrachloride	ug/m3	2.7J	2.6J			25
Chlorobenzene	ug/m3	<0.21	<0.21			25
Chloroethane	ug/m3	<0.31	<0.31			25
Chloroform	ug/m3	1.5	1.4	7		25
Chloromethane	ug/m3	2.1	2.0	8		25
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32			25
cis-1,3-Dichloropropene	ug/m3	<0.97	<0.97			25
Cyclohexane	ug/m3	<0.20	<0.20			25
Dibromochloromethane	ug/m3	<0.54	<0.54			25
Dichlorodifluoromethane	ug/m3	1.8	1.6	11		25
Dichlorotetrafluoroethane	ug/m3	<0.36	<0.36			25
Ethanol	ug/m3	132	127	4		25
Ethyl acetate	ug/m3	2.6	2.4	6		25
Ethylbenzene	ug/m3	0.68J	0.67J			25
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6			25
Isopropylbenzene (Cumene)	ug/m3	<0.87	<0.87			25
m&p-Xylene	ug/m3	2.5J	2.4J			25
Methyl-tert-butyl ether	ug/m3	<0.37	<0.37			25
Methylene Chloride	ug/m3	0.40J	0.37J			25

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641967

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ug/m3	0.82J	0.83J		25	
n-Hexane	ug/m3	0.61J	0.59J		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.68J	0.68J		25	
Propylene	ug/m3	5.9	5.5	8	25	
Styrene	ug/m3	0.77J	0.73J		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Tetrahydrofuran	ug/m3	1.1	1.1	7	25	
THC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<1.2	<1.2		25	
Trichloroethene	ug/m3	6.1	5.7	7	25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.26	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.38J	0.44J		25	
1,1-Dichloroethane	ug/m3	<0.15	<0.15		25	
1,1-Dichloroethene	ug/m3	<0.23	<0.23		25	
1,2,4-Trichlorobenzene	ug/m3	<8.1	<8.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.49	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44		25	
1,2-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,2-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,2-Dichloropropane	ug/m3	<0.28	<0.28		25	
1,3,5-Trimethylbenzene	ug/m3	<0.39	<0.39		25	
1,3-Butadiene	ug/m3	<0.16	<0.16		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<0.97	<0.97		25	
2-Propanol	ug/m3	69.4	71.8	3	25	
4-Ethyltoluene	ug/m3	<0.57	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.76	<0.76		25	
Acetone	ug/m3	18.8	19.4	3	25	
Benzene	ug/m3	0.56	0.55	2	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	<0.45	<0.45		25	

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QUALITY CONTROL DATA

Project: 12584838-03

Pace Project No.: 10641967

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/m3	<1.1	<1.1		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.59	<0.59		25	
Chlorobenzene	ug/m3	<0.20	<0.20		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	0.33J	0.34J		25	
Chloromethane	ug/m3	0.64	0.67	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.92	<0.92		25	
Cyclohexane	ug/m3	<0.19	<0.19		25	
Dibromochloromethane	ug/m3	<0.51	<0.51		25	
Dichlorodifluoromethane	ug/m3	1.5	1.7	10	25	
Dichlorotetrafluoroethane	ug/m3	<0.34	<0.34		25	
Ethanol	ug/m3	17.1	16.8	2	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
Isopropylbenzene (Cumene)	ug/m3	<0.82	<0.82		25	
m&p-Xylene	ug/m3	<0.69	<0.69		25	
Methyl-tert-butyl ether	ug/m3	<0.35	<0.35		25	
Methylene Chloride	ug/m3	0.21J	0.23J		25	
n-Heptane	ug/m3	0.27J	0.26J		25	
n-Hexane	ug/m3	<0.33	<0.33		25	
Naphthalene	ug/m3	<2.9	<2.9		25	
o-Xylene	ug/m3	<0.25	<0.25		25	
Propylene	ug/m3	0.99J	1.1J		25	
Styrene	ug/m3	<0.59	<0.59		25	
Tetrachloroethene	ug/m3	<0.35	<0.35		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
THC as Gas	ug/m3	<149	<149		25	
Toluene	ug/m3	1.3	1.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.59	<0.59		25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 12584838-03

Pace Project No.: 10641967

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03

Pace Project No.: 10641967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10641967001	AC-013123-TP-011	TO-15	867360		
10641967002	IA-013123-TP-012	TO-15	867360		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>GHP</u> Address: <u>6520 Corporate Blvd</u> <u>Indianapolis, IN</u> Email To: _____ Phone: _____ Fax: _____ Requested Due Date/TAT: <u>Starboard</u>	Section B Required Project Information: Report To: _____ Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: <u>12584838-03</u>	Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: _____	Page: <u>1</u> of <u>1</u> Program <input type="checkbox"/> UST Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____ Location of Sampling by State: <u>IN</u> Reporting Units: mg/m ³ _____ PPBV _____ PMW _____ Other: _____ Report Level II. _____ III. _____ IV. _____ Other _____
---	---	--	---

ITEM #	Valid Media Codes		COLLECTED		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	MEDIA	CODE	DATE	TIME									
1		1 Liter Summa Can	1/30/23	13:21	730	730	2692	1398	PM10				
2		6 Liter Summa Can	1/30/23	13:53	730	730	2825	157	3C, Fixed Gas (%)				
3		Low Volume Puff											
4		High Volume Puff											
5		Other											
6		Tedlar Bag											
7		1 Liter Summa Can											
8		6 Liter Summa Can											
9		Low Volume Puff											
10		High Volume Puff											
11		Other											
12													

REQUIREMENTS BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>Trenton</u>	<u>1/26/23</u>	<u>17:00</u>	<u>Matt For Pace</u>	<u>2/6/23</u>	<u>12:37</u>	Y/N
						Y/N
						Y/N
						Y/N
						Y/N
						Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matthew L. Prewer

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY) 2/2/2023

WO# : 10641967

10641967



DC#_ Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air

Effective Date: 02/25/2022

WO#: 10641967

Air Sample Condition Upon Receipt

Client Name: GHD

Project #:

PM: CT1 Due Date: 02/20/23
CLIENT: CRA_INDY

Courier: [X] FedEx [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial

Tracking Number: [] See Exception [X]

Custody Seal on Cooler/Box Present? [] Yes [X] No

Seals Intact? [] Yes [] No

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other:

Date & Initials of Person Examining Contents: 2-7-23 MI

Comments:

Table with 5 columns: Question, Yes, No, N/A, and Comments. Contains 13 rows of checklist items related to sample condition and custody.

Gauge #: [] 10AIR26 [] 10AIR34 [] 10AIR35 [] 10AIR17 [] 10AIR47 [X] 10AIR48

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Divided into two sections for 'Canisters'.

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:
Comments/Resolution:

Date/Time:
Field Data Required? [] Yes [] No

Project Manager Review: Carolynne Trout

Date: 2/8/23

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

February 20, 2023

Michael Richardson
GHD Services
6520 Corporate Dr.
Indianapolis, IN 46278

RE: Project: 12584838-04
Pace Project No.: 10641932

Dear Michael Richardson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Amberger, GHD
Matthew Groves, GHD Services
Jonathon Lang, GHD Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12584838-04

Pace Project No.: 10641932

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 12584838-04

Pace Project No.: 10641932

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10641932001	SG-013023-TP-001	Air	01/30/23 10:36	02/06/23 12:36
10641932002	SG-013023-TP-002	Air	01/30/23 11:17	02/06/23 12:36
10641932003	SG-013023-TP-003	Air	01/30/23 11:44	02/06/23 12:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12584838-04

Pace Project No.: 10641932

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10641932001	SG-013023-TP-001	TO-15	GAS1, MJL	63	PASI-M
10641932002	SG-013023-TP-002	TO-15	MJL	63	PASI-M
10641932003	SG-013023-TP-003	TO-15	AJA	63	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 12584838-04

Pace Project No.: 10641932

Method: TO-15

Description: TO15 MSV AIR

Client: GHD Services_AIR

Date: February 20, 2023

General Information:

3 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 867360

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 4576606)
 - Carbon tetrachloride
- SG-013023-TP-001 (Lab ID: 10641932001)
 - Carbon tetrachloride
- SG-013023-TP-002 (Lab ID: 10641932002)
 - Carbon tetrachloride

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-04

Pace Project No.: 10641932

Sample: **SG-013023-TP-001** Lab ID: **10641932001** Collected: 01/30/23 10:36 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	15.7	ug/m3	11.5	4.2	1.9		02/14/23 23:05	67-64-1	
Benzene	1.2	ug/m3	0.62	0.21	1.9		02/14/23 23:05	71-43-2	
Benzyl chloride	<1.5	ug/m3	5.0	1.5	1.9		02/14/23 23:05	100-44-7	
Bromodichloromethane	<0.61	ug/m3	2.6	0.61	1.9		02/14/23 23:05	75-27-4	
Bromoform	<1.5	ug/m3	10	1.5	1.9		02/14/23 23:05	75-25-2	
Bromomethane	<0.56	ug/m3	1.5	0.56	1.9		02/14/23 23:05	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.86	0.21	1.9		02/14/23 23:05	106-99-0	
2-Butanone (MEK)	1.3J	ug/m3	5.7	0.71	1.9		02/14/23 23:05	78-93-3	
Carbon disulfide	15.8	ug/m3	1.2	0.44	1.9		02/14/23 23:05	75-15-0	
Carbon tetrachloride	16.4	ug/m3	6.1	0.80	1.9		02/14/23 23:05	56-23-5	SS
Chlorobenzene	<0.26	ug/m3	1.8	0.26	1.9		02/14/23 23:05	108-90-7	
Chloroethane	<0.39	ug/m3	1.0	0.39	1.9		02/14/23 23:05	75-00-3	
Chloroform	5.3	ug/m3	0.94	0.25	1.9		02/14/23 23:05	67-66-3	
Chloromethane	0.80	ug/m3	0.80	0.17	1.9		02/14/23 23:05	74-87-3	
Cyclohexane	<0.25	ug/m3	3.3	0.25	1.9		02/14/23 23:05	110-82-7	
Dibromochloromethane	<0.68	ug/m3	3.3	0.68	1.9		02/14/23 23:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.59	ug/m3	1.5	0.59	1.9		02/14/23 23:05	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		02/14/23 23:05	95-50-1	
1,3-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		02/14/23 23:05	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	5.8	1.5	1.9		02/14/23 23:05	106-46-7	
Dichlorodifluoromethane	1.7J	ug/m3	1.9	0.97	1.9		02/14/23 23:05	75-71-8	
1,1-Dichloroethane	1.7	ug/m3	1.6	0.20	1.9		02/14/23 23:05	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	1.6	0.24	1.9		02/14/23 23:05	107-06-2	
1,1-Dichloroethene	2.5	ug/m3	1.5	0.31	1.9		02/14/23 23:05	75-35-4	
cis-1,2-Dichloroethene	18.9	ug/m3	1.5	0.41	1.9		02/14/23 23:05	156-59-2	
trans-1,2-Dichloroethene	<0.79	ug/m3	1.5	0.79	1.9		02/14/23 23:05	156-60-5	
1,2-Dichloropropane	<0.38	ug/m3	1.8	0.38	1.9		02/14/23 23:05	78-87-5	
cis-1,3-Dichloropropene	<1.2	ug/m3	4.4	1.2	1.9		02/14/23 23:05	10061-01-5	
trans-1,3-Dichloropropene	<1.5	ug/m3	4.4	1.5	1.9		02/14/23 23:05	10061-02-6	
Dichlorotetrafluoroethane	<0.46	ug/m3	2.7	0.46	1.9		02/14/23 23:05	76-14-2	
Ethanol	12.7	ug/m3	3.6	1.7	1.9		02/14/23 23:05	64-17-5	
Ethyl acetate	<0.30	ug/m3	1.4	0.30	1.9		02/14/23 23:05	141-78-6	
Ethylbenzene	0.57J	ug/m3	1.7	0.34	1.9		02/14/23 23:05	100-41-4	
4-Ethyltoluene	<0.77	ug/m3	4.8	0.77	1.9		02/14/23 23:05	622-96-8	
n-Heptane	0.45J	ug/m3	1.6	0.25	1.9		02/14/23 23:05	142-82-5	
Hexachloro-1,3-butadiene	<3.3	ug/m3	10.3	3.3	1.9		02/14/23 23:05	87-68-3	
n-Hexane	0.56J	ug/m3	1.4	0.44	1.9		02/14/23 23:05	110-54-3	
2-Hexanone	<1.3	ug/m3	7.9	1.3	1.9		02/14/23 23:05	591-78-6	
Isopropylbenzene (Cumene)	<1.1	ug/m3	4.8	1.1	1.9		02/14/23 23:05	98-82-8	
Methylene Chloride	0.25J	ug/m3	6.7	0.24	1.9		02/14/23 23:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/m3	7.9	1.0	1.9		02/14/23 23:05	108-10-1	
Methyl-tert-butyl ether	<0.48	ug/m3	7.0	0.48	1.9		02/14/23 23:05	1634-04-4	
Naphthalene	<4.0	ug/m3	5.1	4.0	1.9		02/14/23 23:05	91-20-3	
2-Propanol	7.4	ug/m3	4.8	1.8	1.9		02/14/23 23:05	67-63-0	
Propylene	1.0J	ug/m3	1.7	0.68	1.9		02/14/23 23:05	115-07-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-04

Pace Project No.: 10641932

Sample: **SG-013023-TP-001** Lab ID: **10641932001** Collected: 01/30/23 10:36 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.79	ug/m3	1.6	0.79	1.9		02/14/23 23:05	100-42-5	
1,1,2,2-Tetrachloroethane	<0.55	ug/m3	2.7	0.55	1.9		02/14/23 23:05	79-34-5	
Tetrachloroethene	3.5	ug/m3	1.3	0.47	1.9		02/14/23 23:05	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	1.1	0.35	1.9		02/14/23 23:05	109-99-9	
THC as Gas	542	ug/m3	401	201	1.9		02/14/23 23:05		
Toluene	2.4	ug/m3	1.5	0.31	1.9		02/14/23 23:05	108-88-3	
1,2,4-Trichlorobenzene	<10.9	ug/m3	14.3	10.9	1.9		02/14/23 23:05	120-82-1	
1,1,1-Trichloroethane	18.8	ug/m3	2.1	0.34	1.9		02/14/23 23:05	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/m3	1.1	0.49	1.9		02/14/23 23:05	79-00-5	
Trichloroethene	541	ug/m3	10.4	4.5	19		02/16/23 07:17	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	2.2	0.38	1.9		02/14/23 23:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.43	ug/m3	3.0	0.43	1.9		02/14/23 23:05	76-13-1	
1,2,4-Trimethylbenzene	0.87J	ug/m3	1.9	0.66	1.9		02/14/23 23:05	95-63-6	
1,3,5-Trimethylbenzene	<0.52	ug/m3	1.9	0.52	1.9		02/14/23 23:05	108-67-8	
Vinyl acetate	<0.33	ug/m3	1.4	0.33	1.9		02/14/23 23:05	108-05-4	
Vinyl chloride	1.1	ug/m3	0.49	0.18	1.9		02/14/23 23:05	75-01-4	
m&p-Xylene	2.4J	ug/m3	3.4	0.93	1.9		02/14/23 23:05	179601-23-1	
o-Xylene	1.4J	ug/m3	1.7	0.34	1.9		02/14/23 23:05	95-47-6	

Sample: **SG-013023-TP-002** Lab ID: **10641932002** Collected: 01/30/23 11:17 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	29.0	ug/m3	10.3	3.8	1.71		02/14/23 22:31	67-64-1	
Benzene	0.59	ug/m3	0.56	0.19	1.71		02/14/23 22:31	71-43-2	
Benzyl chloride	<1.3	ug/m3	4.5	1.3	1.71		02/14/23 22:31	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.3	0.55	1.71		02/14/23 22:31	75-27-4	
Bromoform	<1.3	ug/m3	9.0	1.3	1.71		02/14/23 22:31	75-25-2	
Bromomethane	<0.51	ug/m3	1.3	0.51	1.71		02/14/23 22:31	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.77	0.19	1.71		02/14/23 22:31	106-99-0	
2-Butanone (MEK)	4.6J	ug/m3	5.1	0.64	1.71		02/14/23 22:31	78-93-3	
Carbon disulfide	<0.40	ug/m3	1.1	0.40	1.71		02/14/23 22:31	75-15-0	
Carbon tetrachloride	4.4J	ug/m3	5.5	0.72	1.71		02/14/23 22:31	56-23-5	SS
Chlorobenzene	<0.24	ug/m3	1.6	0.24	1.71		02/14/23 22:31	108-90-7	
Chloroethane	<0.35	ug/m3	0.92	0.35	1.71		02/14/23 22:31	75-00-3	
Chloroform	1.0	ug/m3	0.85	0.23	1.71		02/14/23 22:31	67-66-3	
Chloromethane	0.87	ug/m3	0.72	0.15	1.71		02/14/23 22:31	74-87-3	
Cyclohexane	0.28J	ug/m3	3.0	0.23	1.71		02/14/23 22:31	110-82-7	
Dibromochloromethane	<0.62	ug/m3	3.0	0.62	1.71		02/14/23 22:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.3	0.53	1.71		02/14/23 22:31	106-93-4	
1,2-Dichlorobenzene	<1.5	ug/m3	5.2	1.5	1.71		02/14/23 22:31	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-04

Pace Project No.: 10641932

Sample: **SG-013023-TP-002** Lab ID: **10641932002** Collected: 01/30/23 11:17 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,3-Dichlorobenzene	<1.4	ug/m3	5.2	1.4	1.71		02/14/23 22:31	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	5.2	1.4	1.71		02/14/23 22:31	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.7	0.88	1.71		02/14/23 22:31	75-71-8	
1,1-Dichloroethane	0.35J	ug/m3	1.4	0.18	1.71		02/14/23 22:31	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	1.4	0.22	1.71		02/14/23 22:31	107-06-2	
1,1-Dichloroethene	0.84J	ug/m3	1.4	0.28	1.71		02/14/23 22:31	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/m3	1.4	0.37	1.71		02/14/23 22:31	156-59-2	
trans-1,2-Dichloroethene	<0.71	ug/m3	1.4	0.71	1.71		02/14/23 22:31	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.6	0.34	1.71		02/14/23 22:31	78-87-5	
cis-1,3-Dichloropropene	<1.1	ug/m3	4.0	1.1	1.71		02/14/23 22:31	10061-01-5	
trans-1,3-Dichloropropene	<1.3	ug/m3	4.0	1.3	1.71		02/14/23 22:31	10061-02-6	
Dichlorotetrafluoroethane	<0.42	ug/m3	2.4	0.42	1.71		02/14/23 22:31	76-14-2	
Ethanol	4.9	ug/m3	3.3	1.5	1.71		02/14/23 22:31	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.3	0.27	1.71		02/14/23 22:31	141-78-6	
Ethylbenzene	<0.31	ug/m3	1.5	0.31	1.71		02/14/23 22:31	100-41-4	
4-Ethyltoluene	<0.70	ug/m3	4.3	0.70	1.71		02/14/23 22:31	622-96-8	
n-Heptane	0.77J	ug/m3	1.4	0.22	1.71		02/14/23 22:31	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	9.3	3.0	1.71		02/14/23 22:31	87-68-3	
n-Hexane	0.73J	ug/m3	1.2	0.40	1.71		02/14/23 22:31	110-54-3	
2-Hexanone	<1.2	ug/m3	7.1	1.2	1.71		02/14/23 22:31	591-78-6	
Isopropylbenzene (Cumene)	<1.0	ug/m3	4.3	1.0	1.71		02/14/23 22:31	98-82-8	
Methylene Chloride	0.26J	ug/m3	6.0	0.21	1.71		02/14/23 22:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.92	ug/m3	7.1	0.92	1.71		02/14/23 22:31	108-10-1	
Methyl-tert-butyl ether	<0.43	ug/m3	6.3	0.43	1.71		02/14/23 22:31	1634-04-4	
Naphthalene	<3.6	ug/m3	4.5	3.6	1.71		02/14/23 22:31	91-20-3	
2-Propanol	8.4	ug/m3	4.3	1.6	1.71		02/14/23 22:31	67-63-0	
Propylene	0.86J	ug/m3	1.5	0.61	1.71		02/14/23 22:31	115-07-1	
Styrene	<0.71	ug/m3	1.5	0.71	1.71		02/14/23 22:31	100-42-5	
1,1,2,2-Tetrachloroethane	<0.49	ug/m3	2.4	0.49	1.71		02/14/23 22:31	79-34-5	
Tetrachloroethene	0.96J	ug/m3	1.2	0.42	1.71		02/14/23 22:31	127-18-4	
Tetrahydrofuran	<0.32	ug/m3	1.0	0.32	1.71		02/14/23 22:31	109-99-9	
THC as Gas	<181	ug/m3	361	181	1.71		02/14/23 22:31		
Toluene	0.90J	ug/m3	1.3	0.28	1.71		02/14/23 22:31	108-88-3	
1,2,4-Trichlorobenzene	<9.8	ug/m3	12.9	9.8	1.71		02/14/23 22:31	120-82-1	
1,1,1-Trichloroethane	2.9	ug/m3	1.9	0.31	1.71		02/14/23 22:31	71-55-6	
1,1,2-Trichloroethane	<0.44	ug/m3	0.95	0.44	1.71		02/14/23 22:31	79-00-5	
Trichloroethene	131	ug/m3	0.93	0.41	1.71		02/14/23 22:31	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.9	0.35	1.71		02/14/23 22:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.7	0.39	1.71		02/14/23 22:31	76-13-1	
1,2,4-Trimethylbenzene	<0.60	ug/m3	1.7	0.60	1.71		02/14/23 22:31	95-63-6	
1,3,5-Trimethylbenzene	<0.47	ug/m3	1.7	0.47	1.71		02/14/23 22:31	108-67-8	
Vinyl acetate	<0.30	ug/m3	1.2	0.30	1.71		02/14/23 22:31	108-05-4	
Vinyl chloride	<0.16	ug/m3	0.44	0.16	1.71		02/14/23 22:31	75-01-4	
m&p-Xylene	<0.84	ug/m3	3.0	0.84	1.71		02/14/23 22:31	179601-23-1	
o-Xylene	<0.30	ug/m3	1.5	0.30	1.71		02/14/23 22:31	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-04

Pace Project No.: 10641932

Sample: **SG-013023-TP-003** Lab ID: **10641932003** Collected: 01/30/23 11:44 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	70.8	ug/m3	10.1	3.7	1.68		02/16/23 23:41	67-64-1	
Benzene	0.97	ug/m3	0.55	0.18	1.68		02/16/23 23:41	71-43-2	
Benzyl chloride	<1.3	ug/m3	4.4	1.3	1.68		02/16/23 23:41	100-44-7	
Bromodichloromethane	<0.54	ug/m3	2.3	0.54	1.68		02/16/23 23:41	75-27-4	
Bromoform	<1.3	ug/m3	8.8	1.3	1.68		02/16/23 23:41	75-25-2	
Bromomethane	<0.50	ug/m3	1.3	0.50	1.68		02/16/23 23:41	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.76	0.19	1.68		02/16/23 23:41	106-99-0	
2-Butanone (MEK)	7.8	ug/m3	5.0	0.63	1.68		02/16/23 23:41	78-93-3	
Carbon disulfide	<0.39	ug/m3	1.1	0.39	1.68		02/16/23 23:41	75-15-0	
Carbon tetrachloride	10	ug/m3	2.2	0.70	1.68		02/16/23 23:41	56-23-5	
Chlorobenzene	<0.23	ug/m3	1.6	0.23	1.68		02/16/23 23:41	108-90-7	
Chloroethane	<0.34	ug/m3	0.90	0.34	1.68		02/16/23 23:41	75-00-3	
Chloroform	13.8	ug/m3	0.83	0.23	1.68		02/16/23 23:41	67-66-3	
Chloromethane	<0.15	ug/m3	0.71	0.15	1.68		02/16/23 23:41	74-87-3	
Cyclohexane	<0.23	ug/m3	2.9	0.23	1.68		02/16/23 23:41	110-82-7	
Dibromochloromethane	<0.60	ug/m3	2.9	0.60	1.68		02/16/23 23:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.3	0.52	1.68		02/16/23 23:41	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41	95-50-1	
1,3-Dichlorobenzene	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41	106-46-7	
Dichlorodifluoromethane	2.6	ug/m3	1.7	0.86	1.68		02/16/23 23:41	75-71-8	
1,1-Dichloroethane	52.2	ug/m3	1.4	0.18	1.68		02/16/23 23:41	75-34-3	
1,2-Dichloroethane	2.2	ug/m3	1.4	0.21	1.68		02/16/23 23:41	107-06-2	
1,1-Dichloroethene	133	ug/m3	1.4	0.28	1.68		02/16/23 23:41	75-35-4	
cis-1,2-Dichloroethene	111	ug/m3	1.4	0.36	1.68		02/16/23 23:41	156-59-2	
trans-1,2-Dichloroethene	2.4	ug/m3	1.4	0.70	1.68		02/16/23 23:41	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.6	0.34	1.68		02/16/23 23:41	78-87-5	
cis-1,3-Dichloropropene	<1.1	ug/m3	3.9	1.1	1.68		02/16/23 23:41	10061-01-5	
trans-1,3-Dichloropropene	<1.3	ug/m3	3.9	1.3	1.68		02/16/23 23:41	10061-02-6	
Dichlorotetrafluoroethane	<0.41	ug/m3	2.4	0.41	1.68		02/16/23 23:41	76-14-2	
Ethanol	8.1	ug/m3	3.2	1.5	1.68		02/16/23 23:41	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.2	0.27	1.68		02/16/23 23:41	141-78-6	
Ethylbenzene	<0.30	ug/m3	1.5	0.30	1.68		02/16/23 23:41	100-41-4	
4-Ethyltoluene	<0.68	ug/m3	4.2	0.68	1.68		02/16/23 23:41	622-96-8	
n-Heptane	<0.22	ug/m3	1.4	0.22	1.68		02/16/23 23:41	142-82-5	
Hexachloro-1,3-butadiene	4.5J	ug/m3	9.1	3.0	1.68		02/16/23 23:41	87-68-3	
n-Hexane	0.81J	ug/m3	1.2	0.39	1.68		02/16/23 23:41	110-54-3	
2-Hexanone	1.2J	ug/m3	7.0	1.2	1.68		02/16/23 23:41	591-78-6	
Isopropylbenzene (Cumene)	<0.98	ug/m3	4.2	0.98	1.68		02/16/23 23:41	98-82-8	
Methylene Chloride	0.70J	ug/m3	5.9	0.21	1.68		02/16/23 23:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	7.8	ug/m3	7.0	0.90	1.68		02/16/23 23:41	108-10-1	
Methyl-tert-butyl ether	<0.42	ug/m3	6.1	0.42	1.68		02/16/23 23:41	1634-04-4	
Naphthalene	<3.5	ug/m3	4.5	3.5	1.68		02/16/23 23:41	91-20-3	
2-Propanol	9.5	ug/m3	4.2	1.6	1.68		02/16/23 23:41	67-63-0	
Propylene	<0.60	ug/m3	1.5	0.60	1.68		02/16/23 23:41	115-07-1	

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ANALYTICAL RESULTS

Project: 12584838-04

Pace Project No.: 10641932

Sample: SG-013023-TP-003 **Lab ID: 10641932003** Collected: 01/30/23 11:44 Received: 02/06/23 12:36 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Styrene	<0.70	ug/m3	1.5	0.70	1.68		02/16/23 23:41	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	2.4	0.48	1.68		02/16/23 23:41	79-34-5	
Tetrachloroethene	40.3	ug/m3	1.2	0.42	1.68		02/16/23 23:41	127-18-4	
Tetrahydrofuran	0.51J	ug/m3	1.0	0.31	1.68		02/16/23 23:41	109-99-9	
THC as Gas	6790	ug/m3	354	178	1.68		02/16/23 23:41		
Toluene	0.63J	ug/m3	1.3	0.27	1.68		02/16/23 23:41	108-88-3	
1,2,4-Trichlorobenzene	<9.6	ug/m3	12.7	9.6	1.68		02/16/23 23:41	120-82-1	
1,1,1-Trichloroethane	158	ug/m3	1.9	0.30	1.68		02/16/23 23:41	71-55-6	
1,1,2-Trichloroethane	2.1	ug/m3	0.93	0.43	1.68		02/16/23 23:41	79-00-5	
Trichloroethene	7290	ug/m3	27.5	12.0	50.4		02/17/23 00:15	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	1.9	0.34	1.68		02/16/23 23:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.65J	ug/m3	2.6	0.38	1.68		02/16/23 23:41	76-13-1	
1,2,4-Trimethylbenzene	<0.59	ug/m3	1.7	0.59	1.68		02/16/23 23:41	95-63-6	
1,3,5-Trimethylbenzene	<0.46	ug/m3	1.7	0.46	1.68		02/16/23 23:41	108-67-8	
Vinyl acetate	<0.30	ug/m3	1.2	0.30	1.68		02/16/23 23:41	108-05-4	
Vinyl chloride	2.9	ug/m3	0.44	0.16	1.68		02/16/23 23:41	75-01-4	
m&p-Xylene	<0.83	ug/m3	3.0	0.83	1.68		02/16/23 23:41	179601-23-1	
o-Xylene	<0.30	ug/m3	1.5	0.30	1.68		02/16/23 23:41	95-47-6	

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

QC Batch: 867360

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641932001, 10641932002

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641932001, 10641932002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.18	1.1	0.18	02/14/23 10:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	1.4	0.29	02/14/23 10:28	
1,1,2-Trichloroethane	ug/m3	<0.26	0.56	0.26	02/14/23 10:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.23	1.6	0.23	02/14/23 10:28	
1,1-Dichloroethane	ug/m3	<0.11	0.82	0.11	02/14/23 10:28	
1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2,4-Trimethylbenzene	ug/m3	<0.35	1.0	0.35	02/14/23 10:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,2-Dichloroethane	ug/m3	<0.13	0.82	0.13	02/14/23 10:28	
1,2-Dichloropropane	ug/m3	<0.20	0.94	0.20	02/14/23 10:28	
1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
1,3-Dichlorobenzene	ug/m3	<0.82	3.1	0.82	02/14/23 10:28	
1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	02/14/23 10:28	
2-Butanone (MEK)	ug/m3	<0.38	3.0	0.38	02/14/23 10:28	
2-Hexanone	ug/m3	<0.69	4.2	0.69	02/14/23 10:28	
2-Propanol	ug/m3	<0.96	2.5	0.96	02/14/23 10:28	
4-Ethyltoluene	ug/m3	<0.41	2.5	0.41	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.54	4.2	0.54	02/14/23 10:28	
Acetone	ug/m3	<2.2	6.0	2.2	02/14/23 10:28	
Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Benzyl chloride	ug/m3	<0.77	2.6	0.77	02/14/23 10:28	
Bromodichloromethane	ug/m3	<0.32	1.4	0.32	02/14/23 10:28	
Bromoform	ug/m3	<0.78	5.2	0.78	02/14/23 10:28	
Bromomethane	ug/m3	<0.30	0.79	0.30	02/14/23 10:28	
Carbon disulfide	ug/m3	<0.23	0.63	0.23	02/14/23 10:28	
Carbon tetrachloride	ug/m3	<0.42	3.2	0.42	02/14/23 10:28	
Chlorobenzene	ug/m3	<0.14	0.94	0.14	02/14/23 10:28	
Chloroethane	ug/m3	<0.20	0.54	0.20	02/14/23 10:28	
Chloroform	ug/m3	<0.13	0.50	0.13	02/14/23 10:28	
Chloromethane	ug/m3	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,2-Dichloroethene	ug/m3	<0.21	0.81	0.21	02/14/23 10:28	
cis-1,3-Dichloropropene	ug/m3	<0.65	2.3	0.65	02/14/23 10:28	
Cyclohexane	ug/m3	<0.13	1.8	0.13	02/14/23 10:28	
Dibromochloromethane	ug/m3	<0.36	1.7	0.36	02/14/23 10:28	
Dichlorodifluoromethane	ug/m3	<0.51	1.0	0.51	02/14/23 10:28	
Dichlorotetrafluoroethane	ug/m3	<0.24	1.4	0.24	02/14/23 10:28	
Ethanol	ug/m3	<0.90	1.9	0.90	02/14/23 10:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

METHOD BLANK: 4576605

Matrix: Air

Associated Lab Samples: 10641932001, 10641932002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.16	0.73	0.16	02/14/23 10:28	
Ethylbenzene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Hexachloro-1,3-butadiene	ug/m3	<1.8	5.4	1.8	02/14/23 10:28	
Isopropylbenzene (Cumene)	ug/m3	<0.58	2.5	0.58	02/14/23 10:28	
m&p-Xylene	ug/m3	<0.49	1.8	0.49	02/14/23 10:28	
Methyl-tert-butyl ether	ug/m3	<0.25	3.7	0.25	02/14/23 10:28	
Methylene Chloride	ug/m3	<0.12	3.5	0.12	02/14/23 10:28	
n-Heptane	ug/m3	0.13J	0.83	0.13	02/14/23 10:28	
n-Hexane	ug/m3	<0.23	0.72	0.23	02/14/23 10:28	
Naphthalene	ug/m3	<2.1	2.7	2.1	02/14/23 10:28	
o-Xylene	ug/m3	<0.18	0.88	0.18	02/14/23 10:28	
Propylene	ug/m3	<0.36	0.88	0.36	02/14/23 10:28	
Styrene	ug/m3	<0.42	0.87	0.42	02/14/23 10:28	
Tetrachloroethene	ug/m3	<0.25	0.69	0.25	02/14/23 10:28	
Tetrahydrofuran	ug/m3	<0.19	0.60	0.19	02/14/23 10:28	
THC as Gas	ug/m3	<106	211	106	02/14/23 10:28	
Toluene	ug/m3	<0.16	0.77	0.16	02/14/23 10:28	
trans-1,2-Dichloroethene	ug/m3	<0.42	0.81	0.42	02/14/23 10:28	
trans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Trichloroethene	ug/m3	<0.24	0.55	0.24	02/14/23 10:28	
Trichlorofluoromethane	ug/m3	<0.20	1.1	0.20	02/14/23 10:28	
Vinyl acetate	ug/m3	<0.18	0.72	0.18	02/14/23 10:28	
Vinyl chloride	ug/m3	<0.096	0.26	0.096	02/14/23 10:28	

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	51.8	89	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1,1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1,1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
1,2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
1,2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
1,3-Butadiene	ug/m3	23.9	20.7	86	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
2-Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

LABORATORY CONTROL SAMPLE: 4576606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
4-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
Acetone	ug/m3	127	103	81	65-131	
Benzene	ug/m3	33.8	30.6	91	70-130	
Benzyl chloride	ug/m3	55.6	55.0	99	70-130	
Bromodichloromethane	ug/m3	71.5	68.0	95	70-132	
Bromoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
Carbon disulfide	ug/m3	33	30.2	92	70-131	
Carbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
Chlorobenzene	ug/m3	49	48.3	99	70-133	
Chloroethane	ug/m3	28.1	21.3	76	64-140	
Chloroform	ug/m3	52.1	46.9	90	70-133	
Chloromethane	ug/m3	22	18.7	85	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Cyclohexane	ug/m3	36.4	30.8	85	70-134	
Dibromochloromethane	ug/m3	90.6	91.7	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
Ethanol	ug/m3	113	87.9	78	65-130	
Ethyl acetate	ug/m3	38.4	39.0	101	70-134	
Ethylbenzene	ug/m3	46.2	42.9	93	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
m&p-Xylene	ug/m3	92.4	82.1	89	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
n-Heptane	ug/m3	43.5	35.0	81	69-140	
n-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	40.8	89	70-132	
Propylene	ug/m3	18.6	15.0	81	69-130	
Styrene	ug/m3	45.3	48.4	107	70-136	
Tetrachloroethene	ug/m3	72	69.2	96	70-139	
Tetrahydrofuran	ug/m3	31.3	26.8	85	70-139	
THC as Gas	ug/m3	5050	5700	113	70-136	
Toluene	ug/m3	40.2	36.1	90	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
Trichloroethene	ug/m3	57.2	56.8	99	70-132	
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
Vinyl acetate	ug/m3	38.7	40.9	106	70-131	
Vinyl chloride	ug/m3	27.2	23.8	87	64-136	

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.43	<0.43			25
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38			25
1,1,2-Trichlorotrifluoroethane	ug/m3	0.44J	0.42J			25
1,1-Dichloroethane	ug/m3	<0.16	<0.16			25
1,1-Dichloroethene	ug/m3	<0.24	<0.24			25
1,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5			25
1,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J			25
1,2-Dibromoethane (EDB)	ug/m3	<0.46	<0.46			25
1,2-Dichlorobenzene	ug/m3	<1.3	<1.3			25
1,2-Dichloroethane	ug/m3	<0.19	<0.19			25
1,2-Dichloropropane	ug/m3	<0.30	<0.30			25
1,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41			25
1,3-Butadiene	ug/m3	<0.17	<0.17			25
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2			25
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2			25
2-Butanone (MEK)	ug/m3	2.7J	2.6J			25
2-Hexanone	ug/m3	<1.0	<1.0			25
2-Propanol	ug/m3	13.9	12.9	8		25
4-Ethyltoluene	ug/m3	<0.61	<0.61			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80			25
Acetone	ug/m3	13.2	12.5	6		25
Benzene	ug/m3	2.0	2.0	4		25
Benzyl chloride	ug/m3	<1.1	<1.1			25
Bromodichloromethane	ug/m3	0.60J	0.55J			25
Bromoform	ug/m3	<1.2	<1.2			25
Bromomethane	ug/m3	<0.44	<0.44			25
Carbon disulfide	ug/m3	<0.35	<0.35			25
Carbon tetrachloride	ug/m3	2.7J	2.6J			25
Chlorobenzene	ug/m3	<0.21	<0.21			25
Chloroethane	ug/m3	<0.31	<0.31			25
Chloroform	ug/m3	1.5	1.4	7		25
Chloromethane	ug/m3	2.1	2.0	8		25
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32			25
cis-1,3-Dichloropropene	ug/m3	<0.97	<0.97			25
Cyclohexane	ug/m3	<0.20	<0.20			25
Dibromochloromethane	ug/m3	<0.54	<0.54			25
Dichlorodifluoromethane	ug/m3	1.8	1.6	11		25
Dichlorotetrafluoroethane	ug/m3	<0.36	<0.36			25
Ethanol	ug/m3	132	127	4		25
Ethyl acetate	ug/m3	2.6	2.4	6		25
Ethylbenzene	ug/m3	0.68J	0.67J			25
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6			25
Isopropylbenzene (Cumene)	ug/m3	<0.87	<0.87			25
m&p-Xylene	ug/m3	2.5J	2.4J			25
Methyl-tert-butyl ether	ug/m3	<0.37	<0.37			25
Methylene Chloride	ug/m3	0.40J	0.37J			25

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

SAMPLE DUPLICATE: 4577302

Parameter	Units	10641964001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ug/m3	0.82J	0.83J		25	
n-Hexane	ug/m3	0.61J	0.59J		25	
Naphthalene	ug/m3	<3.1	<3.1		25	
o-Xylene	ug/m3	0.68J	0.68J		25	
Propylene	ug/m3	5.9	5.5	8	25	
Styrene	ug/m3	0.77J	0.73J		25	
Tetrachloroethene	ug/m3	<0.37	<0.37		25	
Tetrahydrofuran	ug/m3	1.1	1.1	7	25	
THC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<1.2	<1.2		25	
Trichloroethene	ug/m3	6.1	5.7	7	25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.26	<0.26		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.38J	0.44J		25	
1,1-Dichloroethane	ug/m3	<0.15	<0.15		25	
1,1-Dichloroethene	ug/m3	<0.23	<0.23		25	
1,2,4-Trichlorobenzene	ug/m3	<8.1	<8.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.49	<0.49		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44		25	
1,2-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,2-Dichloroethane	ug/m3	<0.18	<0.18		25	
1,2-Dichloropropane	ug/m3	<0.28	<0.28		25	
1,3,5-Trimethylbenzene	ug/m3	<0.39	<0.39		25	
1,3-Butadiene	ug/m3	<0.16	<0.16		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<0.97	<0.97		25	
2-Propanol	ug/m3	69.4	71.8	3	25	
4-Ethyltoluene	ug/m3	<0.57	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.76	<0.76		25	
Acetone	ug/m3	18.8	19.4	3	25	
Benzene	ug/m3	0.56	0.55	2	25	
Benzyl chloride	ug/m3	<1.1	<1.1		25	
Bromodichloromethane	ug/m3	<0.45	<0.45		25	

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

SAMPLE DUPLICATE: 4577303

Parameter	Units	10641964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/m3	<1.1	<1.1		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.59	<0.59		25	
Chlorobenzene	ug/m3	<0.20	<0.20		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	0.33J	0.34J		25	
Chloromethane	ug/m3	0.64	0.67	5	25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
cis-1,3-Dichloropropene	ug/m3	<0.92	<0.92		25	
Cyclohexane	ug/m3	<0.19	<0.19		25	
Dibromochloromethane	ug/m3	<0.51	<0.51		25	
Dichlorodifluoromethane	ug/m3	1.5	1.7	10	25	
Dichlorotetrafluoroethane	ug/m3	<0.34	<0.34		25	
Ethanol	ug/m3	17.1	16.8	2	25	
Ethyl acetate	ug/m3	<0.23	<0.23		25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
Isopropylbenzene (Cumene)	ug/m3	<0.82	<0.82		25	
m&p-Xylene	ug/m3	<0.69	<0.69		25	
Methyl-tert-butyl ether	ug/m3	<0.35	<0.35		25	
Methylene Chloride	ug/m3	0.21J	0.23J		25	
n-Heptane	ug/m3	0.27J	0.26J		25	
n-Hexane	ug/m3	<0.33	<0.33		25	
Naphthalene	ug/m3	<2.9	<2.9		25	
o-Xylene	ug/m3	<0.25	<0.25		25	
Propylene	ug/m3	0.99J	1.1J		25	
Styrene	ug/m3	<0.59	<0.59		25	
Tetrachloroethene	ug/m3	<0.35	<0.35		25	
Tetrahydrofuran	ug/m3	<0.26	<0.26		25	
THC as Gas	ug/m3	<149	<149		25	
Toluene	ug/m3	1.3	1.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.59	<0.59		25	
trans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Trichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
Vinyl acetate	ug/m3	<0.25	<0.25		25	
Vinyl chloride	ug/m3	<0.14	<0.14		25	

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

QC Batch: 867744

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10641932003

METHOD BLANK: 4578382

Matrix: Air

Associated Lab Samples: 10641932003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.090	0.56	0.090	02/16/23 11:47	
1,1,2,2-Tetrachloroethane	ug/m3	<0.14	0.70	0.14	02/16/23 11:47	
1,1,2-Trichloroethane	ug/m3	<0.13	0.28	0.13	02/16/23 11:47	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.11	0.78	0.11	02/16/23 11:47	
1,1-Dichloroethane	ug/m3	<0.054	0.41	0.054	02/16/23 11:47	
1,1-Dichloroethene	ug/m3	<0.082	0.40	0.082	02/16/23 11:47	
1,2,4-Trichlorobenzene	ug/m3	3.1J	3.8	2.9	02/16/23 11:47	
1,2,4-Trimethylbenzene	ug/m3	<0.18	0.50	0.18	02/16/23 11:47	
1,2-Dibromoethane (EDB)	ug/m3	<0.15	0.39	0.15	02/16/23 11:47	
1,2-Dichlorobenzene	ug/m3	0.45J	1.5	0.43	02/16/23 11:47	
1,2-Dichloroethane	ug/m3	<0.064	0.41	0.064	02/16/23 11:47	
1,2-Dichloropropane	ug/m3	<0.10	0.47	0.10	02/16/23 11:47	
1,3,5-Trimethylbenzene	ug/m3	0.17J	0.50	0.14	02/16/23 11:47	
1,3-Butadiene	ug/m3	<0.056	0.22	0.056	02/16/23 11:47	
1,3-Dichlorobenzene	ug/m3	<0.41	1.5	0.41	02/16/23 11:47	
1,4-Dichlorobenzene	ug/m3	0.46J	1.5	0.41	02/16/23 11:47	
2-Butanone (MEK)	ug/m3	<0.19	1.5	0.19	02/16/23 11:47	
2-Hexanone	ug/m3	<0.34	2.1	0.34	02/16/23 11:47	
2-Propanol	ug/m3	<0.48	1.2	0.48	02/16/23 11:47	
4-Ethyltoluene	ug/m3	0.20J	1.2	0.20	02/16/23 11:47	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.27	2.1	0.27	02/16/23 11:47	
Acetone	ug/m3	<1.1	3.0	1.1	02/16/23 11:47	
Benzene	ug/m3	<0.055	0.16	0.055	02/16/23 11:47	
Benzyl chloride	ug/m3	<0.38	1.3	0.38	02/16/23 11:47	
Bromodichloromethane	ug/m3	<0.16	0.68	0.16	02/16/23 11:47	
Bromoform	ug/m3	<0.39	2.6	0.39	02/16/23 11:47	
Bromomethane	ug/m3	<0.15	0.39	0.15	02/16/23 11:47	
Carbon disulfide	ug/m3	<0.12	0.32	0.12	02/16/23 11:47	
Carbon tetrachloride	ug/m3	<0.21	0.64	0.21	02/16/23 11:47	
Chlorobenzene	ug/m3	<0.070	0.47	0.070	02/16/23 11:47	
Chloroethane	ug/m3	<0.10	0.27	0.10	02/16/23 11:47	
Chloroform	ug/m3	<0.067	0.25	0.067	02/16/23 11:47	
Chloromethane	ug/m3	<0.044	0.21	0.044	02/16/23 11:47	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	0.11	02/16/23 11:47	
cis-1,3-Dichloropropene	ug/m3	<0.33	1.2	0.33	02/16/23 11:47	
Cyclohexane	ug/m3	<0.067	0.88	0.067	02/16/23 11:47	
Dibromochloromethane	ug/m3	<0.18	0.86	0.18	02/16/23 11:47	
Dichlorodifluoromethane	ug/m3	<0.26	0.50	0.26	02/16/23 11:47	
Dichlorotetrafluoroethane	ug/m3	<0.12	0.71	0.12	02/16/23 11:47	
Ethanol	ug/m3	<0.45	0.96	0.45	02/16/23 11:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

METHOD BLANK: 4578382

Matrix: Air

Associated Lab Samples: 10641932003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.080	0.37	0.080	02/16/23 11:47	
Ethylbenzene	ug/m3	0.12J	0.44	0.090	02/16/23 11:47	
Hexachloro-1,3-butadiene	ug/m3	<0.88	2.7	0.88	02/16/23 11:47	
Isopropylbenzene (Cumene)	ug/m3	<0.29	1.2	0.29	02/16/23 11:47	
m&p-Xylene	ug/m3	<0.25	0.88	0.25	02/16/23 11:47	
Methyl-tert-butyl ether	ug/m3	<0.12	1.8	0.12	02/16/23 11:47	
Methylene Chloride	ug/m3	<0.062	1.8	0.062	02/16/23 11:47	
n-Heptane	ug/m3	<0.064	0.42	0.064	02/16/23 11:47	
n-Hexane	ug/m3	<0.12	0.36	0.12	02/16/23 11:47	
Naphthalene	ug/m3	1.1J	1.3	1.0	02/16/23 11:47	
o-Xylene	ug/m3	0.17J	0.44	0.089	02/16/23 11:47	
Propylene	ug/m3	<0.18	0.44	0.18	02/16/23 11:47	
Styrene	ug/m3	<0.21	0.43	0.21	02/16/23 11:47	
Tetrachloroethene	ug/m3	<0.12	0.34	0.12	02/16/23 11:47	
Tetrahydrofuran	ug/m3	<0.093	0.30	0.093	02/16/23 11:47	
THC as Gas	ug/m3	<53.0	106	53.0	02/16/23 11:47	
Toluene	ug/m3	<0.081	0.38	0.081	02/16/23 11:47	
trans-1,2-Dichloroethene	ug/m3	<0.21	0.40	0.21	02/16/23 11:47	
trans-1,3-Dichloropropene	ug/m3	0.55J	1.2	0.39	02/16/23 11:47	
Trichloroethene	ug/m3	<0.12	0.27	0.12	02/16/23 11:47	
Trichlorofluoromethane	ug/m3	<0.10	0.57	0.10	02/16/23 11:47	
Vinyl acetate	ug/m3	<0.088	0.36	0.088	02/16/23 11:47	
Vinyl chloride	ug/m3	<0.048	0.13	0.048	02/16/23 11:47	

LABORATORY CONTROL SAMPLE: 4578383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	58.0	100	70-133	
1,1,2,2-Tetrachloroethane	ug/m3	72.8	78.4	108	70-138	
1,1,2-Trichloroethane	ug/m3	58.3	60.1	103	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.2	79.4	98	69-139	
1,1-Dichloroethane	ug/m3	42.5	43.4	102	70-133	
1,1-Dichloroethene	ug/m3	41.9	40.9	98	69-134	
1,2,4-Trichlorobenzene	ug/m3	175	167	95	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.5	53.1	101	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.5	86.0	107	70-135	
1,2-Dichlorobenzene	ug/m3	63.9	62.6	98	70-133	
1,2-Dichloroethane	ug/m3	42.4	43.4	102	70-131	
1,2-Dichloropropane	ug/m3	49.3	49.8	101	70-130	
1,3,5-Trimethylbenzene	ug/m3	52.4	52.9	101	70-135	
1,3-Butadiene	ug/m3	23.9	22.8	95	69-137	
1,3-Dichlorobenzene	ug/m3	64.2	63.6	99	70-136	
1,4-Dichlorobenzene	ug/m3	64.3	62.9	98	70-135	
2-Butanone (MEK)	ug/m3	31.3	31.1	99	70-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12584838-04

Pace Project No.: 10641932

LABORATORY CONTROL SAMPLE: 4578383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	43.4	42.8	99	70-130	
2-Propanol	ug/m3	137	133	97	70-130	
4-Ethyltoluene	ug/m3	52.3	52.2	100	70-137	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.7	100	70-142	
Acetone	ug/m3	127	121	95	65-131	
Benzene	ug/m3	33.8	35.1	104	70-130	
Benzyl chloride	ug/m3	55.6	53.4	96	70-130	
Bromodichloromethane	ug/m3	71.5	73.0	102	70-132	
Bromoform	ug/m3	110	118	107	70-143	
Bromomethane	ug/m3	41.4	40.0	97	70-133	
Carbon disulfide	ug/m3	33	33.2	101	70-131	
Carbon tetrachloride	ug/m3	66.7	66.7	100	70-135	
Chlorobenzene	ug/m3	49	50.9	104	70-133	
Chloroethane	ug/m3	28.1	27.2	97	64-140	
Chloroform	ug/m3	52.1	52.1	100	70-133	
Chloromethane	ug/m3	22	21.3	97	68-130	
cis-1,2-Dichloroethene	ug/m3	42.1	43.8	104	70-133	
cis-1,3-Dichloropropene	ug/m3	48.2	52.7	109	70-133	
Cyclohexane	ug/m3	36.4	39.9	110	70-134	
Dibromochloromethane	ug/m3	90.6	91.1	101	70-134	
Dichlorodifluoromethane	ug/m3	52.5	51.6	98	70-130	
Dichlorotetrafluoroethane	ug/m3	74.4	72.5	97	70-130	
Ethanol	ug/m3	113	104	92	65-130	
Ethyl acetate	ug/m3	38.4	40.1	104	70-134	
Ethylbenzene	ug/m3	46.2	46.5	101	70-133	
Hexachloro-1,3-butadiene	ug/m3	130	128	99	70-141	
Isopropylbenzene (Cumene)	ug/m3	52.7	52.0	99	70-136	
m&p-Xylene	ug/m3	92.4	93.2	101	70-130	
Methyl-tert-butyl ether	ug/m3	38.3	40.2	105	70-132	
Methylene Chloride	ug/m3	36.8	36.1	98	70-134	
n-Heptane	ug/m3	43.5	45.5	105	69-140	
n-Hexane	ug/m3	37.7	41.0	109	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
o-Xylene	ug/m3	46	46.5	101	70-132	
Propylene	ug/m3	18.6	18.3	98	69-130	
Styrene	ug/m3	45.3	44.9	99	70-136	
Tetrachloroethene	ug/m3	72	73.2	102	70-139	
Tetrahydrofuran	ug/m3	31.3	34.2	109	70-139	
THC as Gas	ug/m3	5050	4620	91	70-136	
Toluene	ug/m3	40.2	45.0	112	70-132	
trans-1,2-Dichloroethene	ug/m3	42.3	43.2	102	70-132	
trans-1,3-Dichloropropene	ug/m3	48.4	42.1	87	70-130	
Trichloroethene	ug/m3	57.2	57.3	100	70-132	
Trichlorofluoromethane	ug/m3	60.3	58.7	97	65-139	
Vinyl acetate	ug/m3	38.7	39.1	101	70-131	
Vinyl chloride	ug/m3	27.2	26.3	97	64-136	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 12584838-04

Pace Project No.: 10641932

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-04

Pace Project No.: 10641932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10641932001	SG-013023-TP-001	TO-15	867360		
10641932002	SG-013023-TP-002	TO-15	867360		
10641932003	SG-013023-TP-003	TO-15	867744		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **58343** of /

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: <u>GTH</u>		Report To: <u>M. Keith C. Woodson</u>		Attention:			
Address: <u>6520 Corporate Drive</u>		Copy To: <u>Kyle Amberger</u>		Company Name:			
Email To:		Purchase Order No.:		Address:			
Phone:		Project Name:		Pace Quote Reference:			
Fax:		Project Number: <u>12588838-04</u>		Pace Project Manager/Sales Rep:			
Requested Due Date/TAT: <u>Standard</u>		Pace Profile #:					
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED					
Valid Media Codes MEDIA TB Tedlar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other		MEDIA CODE		PID Reading (Client only)		Method:	
		DATE		TIME			
		COMPOSITE START		COMPOSITE - END			
		DATE		DATE			
		TIME		TIME			

ITEM #	Summa Can Number	Flow Control Number	Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	14353	3328	-28	-7	Mathew Pave	2-6-23	12:36	Received on Ice Y/N
2	28653	3366	-29	-5				Custody Sealed Y/N
3	13053	3296	-28	-4				Temp in C
4								
5								
6								
7								
8								
9								
10								
11								
12								

RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[Signature]		2/2/23	17:50	Mathew Pave	2-6-23	12:36	Received on Ice Y/N
							Custody Sealed Y/N
							Temp in C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Timothy L. Paves
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM / DD / YY):

Comments:





DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt
(SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon Receipt

Client Name: **GHD**

Project #:

WO#: 10641932

PM: CT1

Due Date: 02/20/23

CLIENT: CRA_INDY

Courier: FedEx UPS USPS Client
 Pace SpeeDee Commercial

Tracking Number: See Exception

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam
 None Tin Can Other:

Date & Initials of Person Examining Contents: **2-6-23 MZ**

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-15 or APH)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Media: <u>Air Can</u> Airbag				11. Individually Certified Cans? <input checked="" type="checkbox"/> <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946III)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		13.

Gauge #: 10AIR26 10AIR34 10AIR35 10AIR17 10AIR47 10AIR48

Canisters

Canisters

Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
001	1435	3328	-3.5	+10					
002	2865	3366	-0.5	↓					
003	1305	3296	0	↓					

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
Comments/Resolution: _____

Carolynne Trout

Date: 2/8/23

Project Manager Review: _____
Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

GHD - Indianapolis, IN

Sample Delivery Group: L1646112
Samples Received: 08/15/2023
Project Number: 12584838
Description: Kraft - Former CMW Facility
Site: LARAMIE, WY
Report To: Kyle Ambesger
9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256

Entire Report Reviewed By:



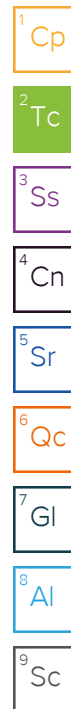
Brittnie L Boyd
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

IA-080823-TP-001 L1646112-01 Air

Collected by
Collected date/time
Received date/time

08/08/23 18:31
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 15:07	08/16/23 15:07	SDS	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

IA-080823-TP-002 L1646112-02 Air

Collected by
Collected date/time
Received date/time

08/08/23 18:32
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 15:36	08/16/23 15:36	SDS	Mt. Juliet, TN

4 Cn

5 Sr

IA-080823-TP-003 L1646112-03 Air

Collected by
Collected date/time
Received date/time

08/08/23 18:34
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 16:08	08/16/23 16:08	SDS	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

IA-080823-TP-004 L1646112-04 Air

Collected by
Collected date/time
Received date/time

08/08/23 18:35
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115946	1	08/17/23 16:44	08/17/23 16:44	CEP	Mt. Juliet, TN

9 Sc

AA-080823-TP-005 L1646112-05 Air

Collected by
Collected date/time
Received date/time

08/08/23 19:04
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 16:55	08/16/23 16:55	SDS	Mt. Juliet, TN

IA-080823-TP-006 L1646112-06 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:05
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 17:26	08/16/23 17:26	SDS	Mt. Juliet, TN

IA-080823-TP-007 L1646112-07 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:05
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 17:55	08/16/23 17:55	SDS	Mt. Juliet, TN

SEG-081123-TP-001 L1646112-08 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:19
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	3.36	08/16/23 18:25	08/16/23 18:25	SDS	Mt. Juliet, TN

SAMPLE SUMMARY

AC-081123-TP-009 L1646112-09 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:18
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 18:54	08/16/23 18:54	SDS	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2116664	2	08/18/23 14:03	08/18/23 14:03	DAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

IA-081123-TP-008 L1646112-10 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:17
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 19:23	08/16/23 19:23	SDS	Mt. Juliet, TN

AA-081123-TP-014 L1646112-11 Air

Collected by
Collected date/time
Received date/time

08/11/23 11:13
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 19:52	08/16/23 19:52	SDS	Mt. Juliet, TN

IA-081123-TP-010 L1646112-12 Air

Collected by
Collected date/time
Received date/time

08/11/23 10:56
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 21:15	08/16/23 21:15	SDS	Mt. Juliet, TN

IA-081123-TP-011 L1646112-13 Air

Collected by
Collected date/time
Received date/time

08/11/23 11:01
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 22:32	08/16/23 22:32	SDS	Mt. Juliet, TN

IA-081123-TP-012 L1646112-14 Air

Collected by
Collected date/time
Received date/time

08/11/23 11:49
08/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2115180	1	08/16/23 23:02	08/16/23 23:02	SDS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brittnie L Boyd
Project Manager

Project Narrative

-15: TO-15 was not analyzed due to insufficient sample volume.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	19.4	46.1		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.558	1.15		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	1300	2450	E	1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.261	1.13		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.239	1.34		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.285	1.41		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.415	1.70		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	22.4	55.1		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	0.560	2.11		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.237	1.16		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.11	4.82		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	0.789	3.42		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.319	1.38		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.4				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	7.31	17.4		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.202	0.645		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.420	0.867		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	56.5	107		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.511	2.87		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.375	1.85		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	2.79	6.86		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	1.22	4.60		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	0.232	1.26		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	9.39	22.3		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.233	0.744		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.497	1.03		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.211	0.836		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	59.7	113		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.396	2.23		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.376	1.86		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	1.93	4.74		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.975	2.88		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	1.04	3.92		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG2115180

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.49	10.7		1	WG2115946
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115946
Benzene	71-43-2	78.10	0.200	0.639	0.305	0.974		1	WG2115946
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115946
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115946
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115946
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115946
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115946
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115946
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115946
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115946
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115946
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115946
Chloromethane	74-87-3	50.50	0.200	0.413	0.495	1.02		1	WG2115946
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115946
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115946
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115946
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115946
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115946
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115946
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115946
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115946
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115946
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115946
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115946
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115946
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115946
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115946
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115946
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115946
Ethanol	64-17-5	46.10	2.50	4.71	55.5	105		1	WG2115946
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115946
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115946
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.421	2.37		1	WG2115946
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.485	2.40		1	WG2115946
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115946
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115946
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115946
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115946
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115946
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115946
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.237	0.823		1	WG2115946
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115946
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115946
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115946
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115946
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115946
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115946
2-Propanol	67-63-0	60.10	1.25	3.07	1.56	3.83		1	WG2115946
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115946
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115946
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115946
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115946
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115946
Toluene	108-88-3	92.10	0.500	1.88	1.14	4.29		1	WG2115946
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115946

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115946
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115946
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115946
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115946
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115946
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115946
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115946
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115946
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115946
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115946
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115946
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115946
<i>(S)</i> 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2115946

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.62	11.0		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.228	0.728		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.394	0.814		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	40.0	75.4		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.308	1.73		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.337	1.67		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	0.845	3.18		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.6				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.34	10.3		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.277	0.885		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.505	1.04		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	12.4	23.4		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.209	1.17		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.351	1.74		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.228	0.792		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	0.724	2.73		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	0.468	2.51		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115180
<i>(S)</i> 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.6				WG2115180

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	8.60	20.4		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.720	2.30		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.566	1.17		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	0.309	1.06		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	65.8	124		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.271	1.17		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.355	1.76		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.480	1.96		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.245	0.851		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	1.50	3.69		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	3.18	12.0		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	0.276	1.48		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.207	1.02		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.25	5.43		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	0.927	4.02		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.322	1.40		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.8				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

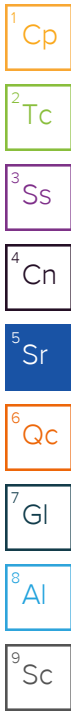
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	4.20	9.98	39.3	93.4		3.36	WG2115180
Allyl chloride	107-05-1	76.53	0.672	2.10	ND	ND		3.36	WG2115180
Benzene	71-43-2	78.10	0.672	2.15	2.44	7.79		3.36	WG2115180
Benzyl Chloride	100-44-7	127	0.672	3.49	ND	ND		3.36	WG2115180
Bromodichloromethane	75-27-4	164	0.672	4.51	ND	ND		3.36	WG2115180
Bromoform	75-25-2	253	2.02	20.9	ND	ND		3.36	WG2115180
Bromomethane	74-83-9	94.90	0.672	2.61	ND	ND		3.36	WG2115180
1,3-Butadiene	106-99-0	54.10	6.72	14.9	ND	ND		3.36	WG2115180
Carbon disulfide	75-15-0	76.10	0.672	2.09	ND	ND		3.36	WG2115180
Carbon tetrachloride	56-23-5	154	0.672	4.23	ND	ND		3.36	WG2115180
Chlorobenzene	108-90-7	113	0.672	3.11	ND	ND		3.36	WG2115180
Chloroethane	75-00-3	64.50	0.672	1.77	ND	ND		3.36	WG2115180
Chloroform	67-66-3	119	0.672	3.27	ND	ND		3.36	WG2115180
Chloromethane	74-87-3	50.50	0.672	1.39	2.15	4.44		3.36	WG2115180
2-Chlorotoluene	95-49-8	126	0.672	3.46	ND	ND		3.36	WG2115180
Cyclohexane	110-82-7	84.20	0.672	2.31	ND	ND		3.36	WG2115180
Dibromochloromethane	124-48-1	208	0.672	5.72	ND	ND		3.36	WG2115180
1,2-Dibromoethane	106-93-4	188	0.672	5.17	ND	ND		3.36	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.672	4.04	ND	ND		3.36	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.672	4.04	ND	ND		3.36	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.672	4.04	ND	ND		3.36	WG2115180
1,2-Dichloroethane	107-06-2	99	0.672	2.72	ND	ND		3.36	WG2115180
1,1-Dichloroethane	75-34-3	98	0.672	2.69	ND	ND		3.36	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.672	2.66	ND	ND		3.36	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.672	2.66	ND	ND		3.36	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.672	2.66	ND	ND		3.36	WG2115180
1,2-Dichloropropane	78-87-5	113	0.672	3.11	ND	ND		3.36	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.672	3.05	ND	ND		3.36	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.672	3.05	ND	ND		3.36	WG2115180
1,4-Dioxane	123-91-1	88.10	0.672	2.42	ND	ND		3.36	WG2115180
Ethanol	64-17-5	46.10	8.40	15.8	272	513		3.36	WG2115180
Ethylbenzene	100-41-4	106	0.672	2.91	0.901	3.91		3.36	WG2115180
4-Ethyltoluene	622-96-8	120	0.672	3.30	ND	ND		3.36	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.672	3.78	ND	ND		3.36	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.672	3.32	1.17	5.79		3.36	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.672	5.15	ND	ND		3.36	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.672	4.70	ND	ND		3.36	WG2115180
Heptane	142-82-5	100	0.672	2.75	1.28	5.24		3.36	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	2.12	22.6	ND	ND		3.36	WG2115180
n-Hexane	110-54-3	86.20	2.12	7.47	ND	ND		3.36	WG2115180
Isopropylbenzene	98-82-8	120.20	0.672	3.30	ND	ND		3.36	WG2115180
Methylene Chloride	75-09-2	84.90	0.672	2.33	0.814	2.83		3.36	WG2115180
Methyl Butyl Ketone	591-78-6	100	4.20	17.2	ND	ND		3.36	WG2115180
2-Butanone (MEK)	78-93-3	72.10	4.20	12.4	ND	ND		3.36	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	4.20	17.2	ND	ND		3.36	WG2115180
Methyl methacrylate	80-62-6	100.12	0.672	2.75	ND	ND		3.36	WG2115180
MTBE	1634-04-4	88.10	0.672	2.42	ND	ND		3.36	WG2115180
Naphthalene	91-20-3	128	2.12	11.1	ND	ND		3.36	WG2115180
2-Propanol	67-63-0	60.10	4.20	10.3	8.23	20.2		3.36	WG2115180
Propene	115-07-1	42.10	4.20	7.23	ND	ND		3.36	WG2115180
Styrene	100-42-5	104	0.672	2.86	ND	ND		3.36	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.672	4.62	ND	ND		3.36	WG2115180
Tetrachloroethylene	127-18-4	166	0.672	4.56	ND	ND		3.36	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.672	1.98	ND	ND		3.36	WG2115180
Toluene	108-88-3	92.10	1.68	6.33	8.10	30.5		3.36	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	2.12	15.7	ND	ND		3.36	WG2115180



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.672	3.66	ND	ND		3.36	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.672	3.66	ND	ND		3.36	WG2115180
Trichloroethylene	79-01-6	131	0.672	3.60	ND	ND		3.36	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.672	3.30	0.720	3.53		3.36	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.672	3.30	ND	ND		3.36	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.672	3.14	ND	ND		3.36	WG2115180
Vinyl chloride	75-01-4	62.50	0.672	1.72	ND	ND		3.36	WG2115180
Vinyl Bromide	593-60-2	106.95	0.672	2.94	ND	ND		3.36	WG2115180
Vinyl acetate	108-05-4	86.10	0.672	2.37	ND	ND		3.36	WG2115180
Xylenes, Total	1330-20-7	106.16	2.02	8.77	4.23	18.4		3.36	WG2115180
m&p-Xylene	1330-20-7	106	1.34	5.81	3.14	13.6		3.36	WG2115180
o-Xylene	95-47-6	106	0.672	2.91	1.09	4.73		3.36	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG2115180

Sample Narrative:

L1646112-08 WG2115180: Dilution due to low sample volume.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	6.44	15.3		2	WG2116664
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG2116664
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	7.58	50.8		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG2116664
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG2116664
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG2116664
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG2116664
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG2116664
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG2116664
Chloromethane	74-87-3	50.50	0.400	0.826	0.569	1.18		2	WG2116664
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG2116664
Dibromochloromethane	124-48-1	208	0.200	1.70	1.33	11.3		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG2116664
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG2116664
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG2116664
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG2116664
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	5.00	9.43	30.5	57.5		2	WG2116664
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG2116664
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.584	2.89		2	WG2116664
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG2116664
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG2116664
Heptane	142-82-5	100	0.200	0.818	41.0	168		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	1.26	4.44	ND	ND		2	WG2116664
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG2116664
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG2116664
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG2116664
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG2116664
Propene	115-07-1	42.10	2.50	4.30	ND	ND		2	WG2116664
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG2116664
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG2116664
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	1.04	5.57		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG2116664
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG2116664
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG2116664
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG2116664
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.2				WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.2				WG2116664

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Cp

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	6.23	14.8		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.505	1.61		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.474	0.979		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	26.0	49.0		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.360	1.78		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.234	0.957		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	0.633	2.23		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	1.62	6.10		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

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6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	0.848	3.68		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	0.631	2.74		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.217	0.941		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.7				WG2115180

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	9.14	21.7		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	0.718	2.29		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	0.630	1.30		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	0.209	0.720		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	66.6	126		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.266	1.15		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.385	1.90		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.404	1.65		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	2.31	8.70		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.215	1.06		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.24	5.38		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	0.929	4.03		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.306	1.33		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.4				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	23.9	56.8		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	2.00	6.39		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	0.404	2.71		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	1.28	6.23		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	4.28	8.84		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	416	784	E	1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.493	2.14		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.441	2.18		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.409	1.67		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.71	7.99		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	3.61	8.87		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	17.0	29.3		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	0.536	2.28		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.800	2.36		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	4.27	16.1		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.255	1.25		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.85	8.03		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	1.45	6.29		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.403	1.75		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.4				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	13.6	32.3		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	1.12	3.58		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	0.225	1.51		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	0.739	3.60		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	2.28	4.71		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	40.7	76.7		1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.304	1.32		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.304	1.50		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.238	0.973		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.78	5.25		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	1.96	4.82		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	10.1	17.4		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	0.294	1.25		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.643	1.90		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	3.22	12.1		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.15	4.99		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	0.895	3.88		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.256	1.11		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				WG2115180

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	28.2	67.0		1	WG2115180
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
Benzene	71-43-2	78.10	0.200	0.639	2.11	6.74		1	WG2115180
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2115180
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2115180
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
Chloromethane	74-87-3	50.50	0.200	0.413	3.75	7.75		1	WG2115180
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
1,2-Dichloroethane	107-06-2	99	0.200	0.810	0.234	0.947		1	WG2115180
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
Ethanol	64-17-5	46.10	2.50	4.71	118	222	E	1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.544	2.36		1	WG2115180
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.360	1.78		1	WG2115180
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
Heptane	142-82-5	100	0.200	0.818	0.743	3.04		1	WG2115180
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
n-Hexane	110-54-3	86.20	0.630	2.22	1.09	3.84		1	WG2115180
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.246	0.854		1	WG2115180
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.48	7.31		1	WG2115180
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
2-Propanol	67-63-0	60.10	1.25	3.07	4.19	10.3		1	WG2115180
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
Styrene	100-42-5	104	0.200	0.851	0.613	2.61		1	WG2115180
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.581	3.94		1	WG2115180
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
Toluene	108-88-3	92.10	0.500	1.88	4.11	15.5		1	WG2115180
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2115180
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2115180
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2115180
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.470	2.31		1	WG2115180
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2115180
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2115180
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2115180
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2115180
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2115180
Xylenes, Total	1330-20-7	106.16	0.600	2.61	2.06	8.94		1	WG2115180
m&p-Xylene	1330-20-7	106	0.400	1.73	1.54	6.68		1	WG2115180
o-Xylene	95-47-6	106	0.200	0.867	0.515	2.23		1	WG2115180
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.5				WG2115180

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3961845-3 08/16/23 10:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	0.467	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

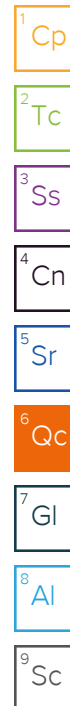
⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3961845-3 08/16/23 10:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	97.1			60.0-140



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3961845-1 08/16/23 09:05 • (LCSD) R3961845-2 08/16/23 09:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.04	4.06	108	108	70.0-130			0.494	25
Allyl chloride	3.75	4.08	4.15	109	111	70.0-130			1.70	25
Benzene	3.75	3.98	4.01	106	107	70.0-130			0.751	25
Benzyl Chloride	3.75	3.60	3.66	96.0	97.6	70.0-152			1.65	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3961845-1 08/16/23 09:05 • (LCSD) R3961845-2 08/16/23 09:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.77	3.79	101	101	70.0-130			0.529	25
Bromoform	3.75	3.68	3.77	98.1	101	70.0-130			2.42	25
Bromomethane	3.75	3.85	3.86	103	103	70.0-130			0.259	25
1,3-Butadiene	3.75	3.96	4.08	106	109	70.0-130			2.99	25
Carbon disulfide	3.75	4.01	4.08	107	109	70.0-130			1.73	25
Carbon tetrachloride	3.75	3.67	3.73	97.9	99.5	70.0-130			1.62	25
Chlorobenzene	3.75	3.90	3.87	104	103	70.0-130			0.772	25
Chloroethane	3.75	4.04	4.14	108	110	70.0-130			2.44	25
Chloroform	3.75	3.76	3.84	100	102	70.0-130			2.11	25
Chloromethane	3.75	4.01	4.08	107	109	70.0-130			1.73	25
2-Chlorotoluene	3.75	3.87	3.97	103	106	70.0-130			2.55	25
Cyclohexane	3.75	4.04	4.13	108	110	70.0-130			2.20	25
Dibromochloromethane	3.75	3.77	3.80	101	101	70.0-130			0.793	25
1,2-Dibromoethane	3.75	4.01	4.02	107	107	70.0-130			0.249	25
1,2-Dichlorobenzene	3.75	3.78	3.90	101	104	70.0-130			3.13	25
1,3-Dichlorobenzene	3.75	3.87	4.04	103	108	70.0-130			4.30	25
1,4-Dichlorobenzene	3.75	3.87	4.02	103	107	70.0-130			3.80	25
1,2-Dichloroethane	3.75	3.75	3.77	100	101	70.0-130			0.532	25
1,1-Dichloroethane	3.75	3.87	4.04	103	108	70.0-130			4.30	25
1,1-Dichloroethene	3.75	3.90	3.93	104	105	70.0-130			0.766	25
cis-1,2-Dichloroethene	3.75	3.94	4.06	105	108	70.0-130			3.00	25
trans-1,2-Dichloroethene	3.75	3.95	4.02	105	107	70.0-130			1.76	25
1,2-Dichloropropane	3.75	3.96	4.04	106	108	70.0-130			2.00	25
cis-1,3-Dichloropropene	3.75	3.87	3.94	103	105	70.0-130			1.79	25
trans-1,3-Dichloropropene	3.75	3.88	3.97	103	106	70.0-130			2.29	25
1,4-Dioxane	3.75	4.19	4.18	112	111	70.0-140			0.239	25
Ethanol	3.75	4.54	4.60	121	123	55.0-148			1.31	25
Ethylbenzene	3.75	3.90	3.98	104	106	70.0-130			2.03	25
4-Ethyltoluene	3.75	3.98	4.09	106	109	70.0-130			2.73	25
Trichlorofluoromethane	3.75	3.66	3.69	97.6	98.4	70.0-130			0.816	25
Dichlorodifluoromethane	3.75	3.64	3.71	97.1	98.9	64.0-139			1.90	25
1,1,2-Trichlorotrifluoroethane	3.75	3.84	3.91	102	104	70.0-130			1.81	25
1,2-Dichlorotetrafluoroethane	3.75	3.81	3.90	102	104	70.0-130			2.33	25
Heptane	3.75	4.10	4.16	109	111	70.0-130			1.45	25
Hexachloro-1,3-butadiene	3.75	3.62	3.71	96.5	98.9	70.0-151			2.46	25
n-Hexane	3.75	4.05	4.15	108	111	70.0-130			2.44	25
Isopropylbenzene	3.75	3.84	3.92	102	105	70.0-130			2.06	25
Methylene Chloride	3.75	3.88	3.93	103	105	70.0-130			1.28	25
Methyl Butyl Ketone	3.75	4.21	4.24	112	113	70.0-149			0.710	25
2-Butanone (MEK)	3.75	3.93	4.02	105	107	70.0-130			2.26	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3961845-1 08/16/23 09:05 • (LCSD) R3961845-2 08/16/23 09:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.11	4.20	110	112	70.0-139			2.17	25
Methyl methacrylate	3.75	3.94	3.99	105	106	70.0-130			1.26	25
MTBE	3.75	3.77	3.89	101	104	70.0-130			3.13	25
Naphthalene	3.75	4.20	4.25	112	113	70.0-159			1.18	25
2-Propanol	3.75	3.85	3.91	103	104	70.0-139			1.55	25
Propene	3.75	4.00	4.01	107	107	64.0-144			0.250	25
Styrene	3.75	4.02	4.16	107	111	70.0-130			3.42	25
1,1,2,2-Tetrachloroethane	3.75	4.04	4.12	108	110	70.0-130			1.96	25
Tetrachloroethylene	3.75	3.81	3.85	102	103	70.0-130			1.04	25
Tetrahydrofuran	3.75	3.99	4.17	106	111	70.0-137			4.41	25
Toluene	3.75	3.92	3.99	105	106	70.0-130			1.77	25
1,2,4-Trichlorobenzene	3.75	4.04	4.20	108	112	70.0-160			3.88	25
1,1,1-Trichloroethane	3.75	3.74	3.74	99.7	99.7	70.0-130			0.000	25
1,1,2-Trichloroethane	3.75	3.93	3.97	105	106	70.0-130			1.01	25
Trichloroethylene	3.75	3.88	3.88	103	103	70.0-130			0.000	25
1,2,4-Trimethylbenzene	3.75	3.99	4.08	106	109	70.0-130			2.23	25
1,3,5-Trimethylbenzene	3.75	3.90	4.01	104	107	70.0-130			2.78	25
2,2,4-Trimethylpentane	3.75	4.04	4.13	108	110	70.0-130			2.20	25
Vinyl chloride	3.75	4.00	4.13	107	110	70.0-130			3.20	25
Vinyl Bromide	3.75	3.85	3.97	103	106	70.0-130			3.07	25
Vinyl acetate	3.75	3.90	4.09	104	109	70.0-130			4.76	25
Xylenes, Total	11.3	11.8	12.2	104	108	70.0-130			3.33	25
m&p-Xylene	7.50	7.85	8.09	105	108	70.0-130			3.01	25
o-Xylene	3.75	3.96	4.06	106	108	70.0-130			2.49	25
(S) 1,4-Bromofluorobenzene				99.0	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3962475-3 08/17/23 10:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3962475-3 08/17/23 10:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.172	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	97.9			60.0-140

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3962475-1 08/17/23 09:06 • (LCSD) R3962475-2 08/17/23 09:53

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.49	4.42	120	118	70.0-130			1.57	25
Allyl chloride	3.75	4.75	4.48	127	119	70.0-130			5.85	25
Benzene	3.75	4.61	4.62	123	123	70.0-130			0.217	25
Benzyl Chloride	3.75	4.00	4.03	107	107	70.0-152			0.747	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3962475-1 08/17/23 09:06 • (LCSD) R3962475-2 08/17/23 09:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.35	4.34	116	116	70.0-130			0.230	25
Bromoform	3.75	4.01	4.01	107	107	70.0-130			0.000	25
Bromomethane	3.75	4.56	4.59	122	122	70.0-130			0.656	25
1,3-Butadiene	3.75	4.27	4.37	114	117	70.0-130			2.31	25
Carbon disulfide	3.75	4.76	4.79	127	128	70.0-130			0.628	25
Carbon tetrachloride	3.75	4.32	4.29	115	114	70.0-130			0.697	25
Chlorobenzene	3.75	4.26	4.35	114	116	70.0-130			2.09	25
Chloroethane	3.75	4.82	4.71	129	126	70.0-130			2.31	25
Chloroform	3.75	4.59	4.54	122	121	70.0-130			1.10	25
Chloromethane	3.75	4.62	4.65	123	124	70.0-130			0.647	25
2-Chlorotoluene	3.75	4.26	4.23	114	113	70.0-130			0.707	25
Cyclohexane	3.75	4.75	4.76	127	127	70.0-130			0.210	25
Dibromochloromethane	3.75	4.18	4.21	111	112	70.0-130			0.715	25
1,2-Dibromoethane	3.75	4.31	4.35	115	116	70.0-130			0.924	25
1,2-Dichlorobenzene	3.75	4.28	4.29	114	114	70.0-130			0.233	25
1,3-Dichlorobenzene	3.75	4.25	4.30	113	115	70.0-130			1.17	25
1,4-Dichlorobenzene	3.75	4.26	4.26	114	114	70.0-130			0.000	25
1,2-Dichloroethane	3.75	4.15	4.18	111	111	70.0-130			0.720	25
1,1-Dichloroethane	3.75	4.68	4.70	125	125	70.0-130			0.426	25
1,1-Dichloroethene	3.75	4.62	4.55	123	121	70.0-130			1.53	25
cis-1,2-Dichloroethene	3.75	4.66	4.70	124	125	70.0-130			0.855	25
trans-1,2-Dichloroethene	3.75	4.61	4.55	123	121	70.0-130			1.31	25
1,2-Dichloropropane	3.75	4.63	4.61	123	123	70.0-130			0.433	25
cis-1,3-Dichloropropene	3.75	4.59	4.61	122	123	70.0-130			0.435	25
trans-1,3-Dichloropropene	3.75	4.45	4.53	119	121	70.0-130			1.78	25
1,4-Dioxane	3.75	4.39	4.25	117	113	70.0-140			3.24	25
Ethanol	3.75	4.76	4.78	127	127	55.0-148			0.419	25
Ethylbenzene	3.75	4.44	4.49	118	120	70.0-130			1.12	25
4-Ethyltoluene	3.75	4.30	4.34	115	116	70.0-130			0.926	25
Trichlorofluoromethane	3.75	4.38	4.38	117	117	70.0-130			0.000	25
Dichlorodifluoromethane	3.75	4.29	4.37	114	117	64.0-139			1.85	25
1,1,2-Trichlorotrifluoroethane	3.75	4.49	4.54	120	121	70.0-130			1.11	25
1,2-Dichlorotetrafluoroethane	3.75	4.48	4.47	119	119	70.0-130			0.223	25
Heptane	3.75	4.51	4.65	120	124	70.0-130			3.06	25
Hexachloro-1,3-butadiene	3.75	4.74	4.82	126	129	70.0-151			1.67	25
n-Hexane	3.75	4.79	4.87	128	130	70.0-130			1.66	25
Isopropylbenzene	3.75	4.37	4.43	117	118	70.0-130			1.36	25
Methylene Chloride	3.75	4.37	4.35	117	116	70.0-130			0.459	25
Methyl Butyl Ketone	3.75	4.25	4.27	113	114	70.0-149			0.469	25
2-Butanone (MEK)	3.75	4.75	4.77	127	127	70.0-130			0.420	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3962475-1 08/17/23 09:06 • (LCSD) R3962475-2 08/17/23 09:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.41	4.37	118	117	70.0-139			0.911	25
Methyl methacrylate	3.75	4.23	4.30	113	115	70.0-130			1.64	25
MTBE	3.75	4.77	4.72	127	126	70.0-130			1.05	25
Naphthalene	3.75	4.28	4.33	114	115	70.0-159			1.16	25
2-Propanol	3.75	4.67	4.63	125	123	70.0-139			0.860	25
Propene	3.75	4.64	4.66	124	124	64.0-144			0.430	25
Styrene	3.75	4.38	4.42	117	118	70.0-130			0.909	25
1,1,2,2-Tetrachloroethane	3.75	4.28	4.33	114	115	70.0-130			1.16	25
Tetrachloroethylene	3.75	4.33	4.42	115	118	70.0-130			2.06	25
Tetrahydrofuran	3.75	4.71	4.69	126	125	70.0-137			0.426	25
Toluene	3.75	4.43	4.49	118	120	70.0-130			1.35	25
1,2,4-Trichlorobenzene	3.75	4.49	4.55	120	121	70.0-160			1.33	25
1,1,1-Trichloroethane	3.75	4.37	4.39	117	117	70.0-130			0.457	25
1,1,2-Trichloroethane	3.75	4.33	4.42	115	118	70.0-130			2.06	25
Trichloroethylene	3.75	4.44	4.57	118	122	70.0-130			2.89	25
1,2,4-Trimethylbenzene	3.75	4.31	4.25	115	113	70.0-130			1.40	25
1,3,5-Trimethylbenzene	3.75	4.27	4.27	114	114	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.87	4.88	130	130	70.0-130			0.205	25
Vinyl chloride	3.75	4.49	4.58	120	122	70.0-130			1.98	25
Vinyl Bromide	3.75	4.49	4.47	120	119	70.0-130			0.446	25
Vinyl acetate	3.75	4.66	4.63	124	123	70.0-130			0.646	25
Xylenes, Total	11.3	13.5	13.6	119	120	70.0-130			0.738	25
m&p-Xylene	7.50	9.02	9.01	120	120	70.0-130			0.111	25
o-Xylene	3.75	4.46	4.54	119	121	70.0-130			1.78	25
(S) 1,4-Bromofluorobenzene				99.8	101	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3962798-3 08/18/23 10:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
Cyclohexane	U		0.0753	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
Ethanol	0.575	U	0.265	2.50
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
n-Hexane	U		0.206	0.630
Methylene Chloride	U		0.0979	0.200
2-Butanone (MEK)	U		0.0814	1.25
MTBE	U		0.0647	0.200
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Tetrahydrofuran	U		0.0734	0.200
1,1,1-Trichloroethane	U		0.0736	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
(S) 1,4-Bromofluorobenzene	98.2			60.0-140

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3962798-1 08/18/23 09:40 • (LCSD) R3962798-2 08/18/23 10:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	3.75	3.86	4.01	103	107	70.0-130			3.81	25
Allyl chloride	3.75	4.47	4.56	119	122	70.0-130			1.99	25
Bromomethane	3.75	4.07	4.04	109	108	70.0-130			0.740	25
1,3-Butadiene	3.75	4.37	4.50	117	120	70.0-130			2.93	25
Carbon disulfide	3.75	4.11	4.18	110	111	70.0-130			1.69	25
Carbon tetrachloride	3.75	3.99	4.05	106	108	70.0-130			1.49	25
Chloroethane	3.75	4.24	4.18	113	111	70.0-130			1.43	25
Chloroform	3.75	4.12	4.18	110	111	70.0-130			1.45	25
Chloromethane	3.75	4.47	4.51	119	120	70.0-130			0.891	25
Cyclohexane	3.75	4.09	4.17	109	111	70.0-130			1.94	25
1,1-Dichloroethane	3.75	4.21	4.43	112	118	70.0-130			5.09	25
1,1-Dichloroethene	3.75	4.21	4.30	112	115	70.0-130			2.12	25
cis-1,2-Dichloroethene	3.75	3.65	3.96	97.3	106	70.0-130			8.15	25
trans-1,2-Dichloroethene	3.75	4.21	4.26	112	114	70.0-130			1.18	25
Ethanol	3.75	4.60	4.65	123	124	55.0-148			1.08	25
Trichlorofluoromethane	3.75	4.19	4.23	112	113	70.0-130			0.950	25
Dichlorodifluoromethane	3.75	4.22	4.28	113	114	64.0-139			1.41	25
1,1,2-Trichlorotrifluoroethane	3.75	3.91	3.96	104	106	70.0-130			1.27	25
1,2-Dichlorotetrafluoroethane	3.75	4.17	4.22	111	113	70.0-130			1.19	25
n-Hexane	3.75	4.26	4.46	114	119	70.0-130			4.59	25
Methylene Chloride	3.75	4.23	4.33	113	115	70.0-130			2.34	25
2-Butanone (MEK)	3.75	4.02	4.20	107	112	70.0-130			4.38	25
MTBE	3.75	4.09	4.16	109	111	70.0-130			1.70	25
2-Propanol	3.75	4.38	4.35	117	116	70.0-139			0.687	25
Propene	3.75	4.54	4.63	121	123	64.0-144			1.96	25
Tetrahydrofuran	3.75	4.64	4.68	124	125	70.0-137			0.858	25
1,1,1-Trichloroethane	3.75	4.10	4.19	109	112	70.0-130			2.17	25
2,2,4-Trimethylpentane	3.75	4.41	4.49	118	120	70.0-130			1.80	25
Vinyl chloride	3.75	4.30	4.27	115	114	70.0-130			0.700	25
Vinyl Bromide	3.75	4.12	4.10	110	109	70.0-130			0.487	25
Vinyl acetate	3.75	3.68	3.93	98.1	105	70.0-130			6.57	25
(S) 1,4-Bromofluorobenzene				98.6	98.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

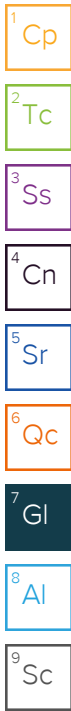
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Page: 1 of 4

Section A

Required Client Information:

Company: GHD
 Address: 9855 Crosspoint BLVD, Suite 136
Indianapolis, IN 46256
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____ Standard

Section B

Required Project Information:

Report To: Mike Richardson
 Copy To: Angela Bown
Kyle Amberger
 Purchase Order No.: _____
 Project Name: CMW
 Project Number: 12584838

Section C

Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager/Sales Rep. _____
 Pace Profile #: _____

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____
 Location of Sampling by State: IN
 Reporting Units
 ug/m³ _____ mg/m³ _____
 PPMV _____ PPMV _____
 Other _____
 Report Level: II. _____ III. _____ IV. _____ Other _____

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number			Method:							
					COMPOSITE START END/GRAB		COMPOSITE -					PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO-15 Short List		
					DATE	TIME	DATE	TIME														
1	IA-080823-TP-001	6LC	8/17/23	18:50	8/18/23	18:31	-30	-10	009290	028	6	35								X	-01	
2	IA-080823-TP-002	6LC	8/17/23	18:52	8/18/23	18:32	-30	-2	015132	028	7	64									X	-02
3	IA-080823-TP-003	6LC	8/17/23	18:55	8/18/23	18:34	-30	-10	008814	023	5	97									X	-03
4	IA-080823-TP-004	6LC	8/17/23	18:57	8/18/23	18:35	-29	-4	022600	013	0	83									X	-04
5	AA-080823-TP-005	6LC	8/17/23	19:04	8/18/23	19:04	-30	-9	022539	024	8	70									X	-05

U4612
Pace Lab ID

Sample Receipt Checklist
 COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<u>[Signature]</u>			<u>[Signature]</u>	8/15/23	0900	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): _____
 Temp in °C _____
 Received on Ice _____
 Custody Sealed Cooler _____
 Samples Intact _____



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: GHD	Report To: Mike Richardson <i>Angela Ben</i>	Attention:
Address: 9855 Crosspoint BLVD, Suite 136	Copy To: Kyle Amberger	Company Name:
Indianapolis, IN 46256		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: CMW	Pace Project Manager/Sales Rep.
Requested Due Date/TAT: Standard	Project Number: 12584838	Pace Profile #:

Program

UST Superfund Emissions Clean Air Act

Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: **IN**

Reporting Units
 ug/m³ mg/m³
 PPBV PPMV
 Other

Report Level II ___ III ___ IV ___ Other ___

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:							Lab ID			
					COMPOSITE START		COMPOSITE -						PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAM)	TO-14		TO-15	TO-15 Short List	
					DATE	TIME	DATE	TIME															
1	IA-081123-TP-006		6LC		8/10	10:15	8/11	10:05	-30	-3	11815	015367									X	-06	
2	IA-081123-TP-007		6LC		8/10	10:15	8/11	10:05	-29	-4	22588	011489										X	-07
3	SEG-081123-TP-001		6LC		8/10	10:18	8/11	10:19	-30	-18	8540	020098										X	-08
4	IA-081123-TP-008		6LC		8/10	10:19	8/11	10:17	-29	-4	12110	011701											
5	AC-081123-TP-009		6LC		8/10	10:20	8/11	10:18	-29	-4	12110	011701										X	-09
6	IA-081123-TP-008		6LC		8/10	10:19	8/11	10:17	-29	-4	23235	009893										X	-10
7	AA-081123-TP-014		6LC		8/10	11:10	8/11	11:13	-29	-3	28567	007509										X	-11

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		<i>[Signature]</i>	8/14/23	17:00	<i>[Signature]</i>	8/15/23	0900	Temp in °C	Received on Ice	Custody Sealed Cooler

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Timothy L Paenges**

SIGNATURE OF SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): **08/14/23**

Temp in °C: _____
 Received on Ice:
 Custody Sealed Cooler:
 Samples Intact:



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: <u>GHD</u>		Report To: <u>Mike Richardson</u>		Attention:		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Address: <u>9855 Crosspoint BLVD, Suite 136</u>		Copy To: <u>Kyle Amberger</u>		Company Name:		Location of Sampling by State <u>IN</u>	
Indianapolis, IN 46256		Purchase Order No.:		Address:		Reporting Units ug/m ³ <u> </u> mg/m ³ <u> </u> PPBV <u> </u> PPMV <u> </u> Other <u> </u>	
Email To:		Project Name: <u>CMW</u>		Pace Quote Reference:		Report Level <u>II</u> <u>III</u> <u>IV</u> Other <u> </u>	
Phone: <u> </u> Fax: <u> </u>		Project Number: <u>12584838</u>		Pace Project Manager/Sales Rep.:			
Requested Due Date/TAT: <u>Standard</u>				Pace Profile #:			

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:							Pace Lab ID			
					COMPOSITE START END/GRAB		COMPOSITE-						PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAM)	TO-14		TO-15	TO-15 Short List*	
					DATE	TIME	DATE	TIME															
1	IA-081123-TP-010	GLC	GLC		8/10/23	1059	8/11/23	1056	-28	-3	12707	011394									X	-12	
2	IA-081123-TP-011	GLC	GLC		8/10/23	1101	8/11/23	1101	-29	-4	28446	009685										X	-13
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	8/14/23	17:00	<i>[Signature]</i>	8/15/23	0900	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Timothy L Pranger
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): 08/14/23



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 4

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company:	Report To: Angela Bown	Attention:
Address: 9855 Crosspoint BLVD, Suite 136	Copy To: Kyle Amberger	Company Name:
Indianapolis, IN 46256		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone:	Project Name: CMW	Pace Project Manager/Sales Rep.:
Fax:	Project Number: 12584838	Pace Profile #:
Requested Due Date/TAT: Standard		

Program

UST
 Superfund
 Emissions
 Clean Air Act
 Voluntary Clean Up
 Dry Clean
 RCRA
 Other _____

Location of Sampling by State _____

Reporting Units
 ug/m³ _____ mg/m³ _____
 PPBV _____ PPMV _____
 Other _____

Report Level: II _____ III _____ IV _____ Other _____

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID		
					COMPOSITE START		COMPOSITE -						PM10	3C Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15		TO-15 Short List	
					DATE	TIME	DATE	TIME															
1	IA-081123-TP-012	6LC			8/10/23	1151	8/14/23	1149	-28	-2	10446	009493									X	-14	
2	AC-081123-TP-013	6LC			8/10/23	1152	8/11/23	1150	730	-3	15032	011313										X	-15
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>	8/14/23	17:00				Y/N	Y/N	Y/N	Y/N
			Jamie	8/15/23	0900	Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Timothy L Pranger*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 08/14/23

GHD - Indianapolis, IN

Sample Delivery Group: L1706926
Samples Received: 02/17/2024
Project Number: 12584838
Description: Kraft - Former CMW Facility

Report To: Kyle Amberger
9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256

Entire Report Reviewed By:



Brittnie L Boyd
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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		⁹ Sc

SAMPLE SUMMARY

IA-02142024-AH-002 L1706926-01 Air

Collected by AH/SS Collected date/time 02/15/24 12:23 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 21:53	02/19/24 21:53	MSC	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

IA-02142024-AH-003 L1706926-02 Air

Collected by AH/SS Collected date/time 02/15/24 12:24 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 22:36	02/19/24 22:36	MNP	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	10.9	25.9		1	WG2229358
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
Benzene	71-43-2	78.10	0.200	0.639	1.12	3.58		1	WG2229358
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.973	0.231	1.12		1	WG2229358
Chloromethane	74-87-3	50.50	0.200	0.413	2.92	6.03		1	WG2229358
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	372	701	E	1	WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	0.234	1.01		1	WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.235	1.32		1	WG2229358
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.470	2.32		1	WG2229358
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	14.2	41.9		1	WG2229358
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
2-Propanol	67-63-0	60.10	1.25	3.07	2.62	6.44		1	WG2229358
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
Styrene	100-42-5	104	0.200	0.851	0.347	1.48		1	WG2229358
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
Toluene	108-88-3	92.10	0.500	1.88	2.35	8.85		1	WG2229358
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229358
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229358
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2229358
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229358
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229358
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229358
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229358
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229358
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229358
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.03	4.47		1	WG2229358
m&p-Xylene	179601-23-1	106	0.400	1.73	0.811	3.52		1	WG2229358
o-Xylene	95-47-6	106	0.200	0.867	0.219	0.949		1	WG2229358
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				WG2229358

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.45	8.20		1	WG2229358
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
Benzene	71-43-2	78.10	0.200	0.639	0.335	1.07		1	WG2229358
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229358
Chloromethane	74-87-3	50.50	0.200	0.413	0.589	1.22		1	WG2229358
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	17.6	33.2		1	WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG2229358
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.517	2.56		1	WG2229358
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2229358
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
2-Propanol	67-63-0	60.10	1.25	3.07	2.14	5.26		1	WG2229358
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229358
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
Toluene	108-88-3	92.10	0.500	1.88	0.995	3.75		1	WG2229358
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229358
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229358
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2229358
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229358
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229358
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229358
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229358
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229358
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229358
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2229358
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2229358
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229358
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG2229358

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4036598-2 02/19/24 14:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	0.493	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4036598-2 02/19/24 14:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	99.1			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.13	3.17	83.5	84.5	70.0-130			1.27	25
Allyl chloride	3.75	3.27	3.31	87.2	88.3	70.0-130			1.22	25
Benzene	3.75	3.31	3.40	88.3	90.7	70.0-130			2.68	25
Benzyl Chloride	3.75	3.66	3.63	97.6	96.8	70.0-152			0.823	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
Bromoform	3.75	3.60	3.70	96.0	98.7	70.0-130			2.74	25
Bromomethane	3.75	3.32	3.38	88.5	90.1	70.0-130			1.79	25
1,3-Butadiene	3.75	3.29	3.29	87.7	87.7	70.0-130			0.000	25
Carbon disulfide	3.75	3.14	3.13	83.7	83.5	70.0-130			0.319	25
Carbon tetrachloride	3.75	3.72	3.89	99.2	104	70.0-130			4.47	25
Chlorobenzene	3.75	3.53	3.55	94.1	94.7	70.0-130			0.565	25
Chloroethane	3.75	3.34	3.40	89.1	90.7	70.0-130			1.78	25
Chloroform	3.75	3.46	3.55	92.3	94.7	70.0-130			2.57	25
Chloromethane	3.75	3.27	3.40	87.2	90.7	70.0-130			3.90	25
2-Chlorotoluene	3.75	3.65	3.79	97.3	101	70.0-130			3.76	25
Cyclohexane	3.75	3.29	3.40	87.7	90.7	70.0-130			3.29	25
Dibromochloromethane	3.75	3.64	3.78	97.1	101	70.0-130			3.77	25
1,2-Dibromoethane	3.75	3.61	3.68	96.3	98.1	70.0-130			1.92	25
1,2-Dichlorobenzene	3.75	3.66	3.75	97.6	100	70.0-130			2.43	25
1,3-Dichlorobenzene	3.75	3.59	3.79	95.7	101	70.0-130			5.42	25
1,4-Dichlorobenzene	3.75	3.70	3.79	98.7	101	70.0-130			2.40	25
1,2-Dichloroethane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
1,1-Dichloroethane	3.75	3.36	3.35	89.6	89.3	70.0-130			0.298	25
1,1-Dichloroethene	3.75	3.46	3.37	92.3	89.9	70.0-130			2.64	25
cis-1,2-Dichloroethene	3.75	3.38	3.42	90.1	91.2	70.0-130			1.18	25
trans-1,2-Dichloroethene	3.75	3.47	3.46	92.5	92.3	70.0-130			0.289	25
1,2-Dichloropropane	3.75	3.23	3.37	86.1	89.9	70.0-130			4.24	25
cis-1,3-Dichloropropene	3.75	3.63	3.53	96.8	94.1	70.0-130			2.79	25
trans-1,3-Dichloropropene	3.75	3.54	3.59	94.4	95.7	70.0-130			1.40	25
1,4-Dioxane	3.75	3.60	3.47	96.0	92.5	70.0-140			3.68	25
Ethanol	3.75	3.41	3.33	90.9	88.8	55.0-148			2.37	25
Ethylbenzene	3.75	3.57	3.64	95.2	97.1	70.0-130			1.94	25
4-Ethyltoluene	3.75	3.72	3.81	99.2	102	70.0-130			2.39	25
Trichlorofluoromethane	3.75	3.81	3.84	102	102	70.0-130			0.784	25
Dichlorodifluoromethane	3.75	3.93	3.91	105	104	64.0-139			0.510	25
1,1,2-Trichlorotrifluoroethane	3.75	3.38	3.54	90.1	94.4	70.0-130			4.62	25
1,2-Dichlorotetrafluoroethane	3.75	3.63	3.59	96.8	95.7	70.0-130			1.11	25
Heptane	3.75	3.54	3.53	94.4	94.1	70.0-130			0.283	25
Hexachloro-1,3-butadiene	3.75	3.76	3.83	100	102	70.0-151			1.84	25
n-Hexane	3.75	3.41	3.32	90.9	88.5	70.0-130			2.67	25
Isopropylbenzene	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
Methylene Chloride	3.75	3.30	3.31	88.0	88.3	70.0-130			0.303	25
Methyl Butyl Ketone	3.75	3.91	3.78	104	101	70.0-149			3.38	25
2-Butanone (MEK)	3.75	3.33	3.40	88.8	90.7	70.0-130			2.08	25

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.81	3.54	102	94.4	70.0-139			7.35	25
Methyl methacrylate	3.75	3.44	3.38	91.7	90.1	70.0-130			1.76	25
MTBE	3.75	3.58	3.57	95.5	95.2	70.0-130			0.280	25
Naphthalene	3.75	3.86	3.87	103	103	70.0-159			0.259	25
2-Propanol	3.75	3.18	3.19	84.8	85.1	70.0-139			0.314	25
Propene	3.75	3.45	3.62	92.0	96.5	64.0-144			4.81	25
Styrene	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
1,1,2,2-Tetrachloroethane	3.75	3.41	3.40	90.9	90.7	70.0-130			0.294	25
Tetrachloroethylene	3.75	3.63	3.62	96.8	96.5	70.0-130			0.276	25
Tetrahydrofuran	3.75	3.39	3.31	90.4	88.3	70.0-137			2.39	25
Toluene	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
1,2,4-Trichlorobenzene	3.75	3.81	3.86	102	103	70.0-160			1.30	25
1,1,1-Trichloroethane	3.75	3.58	3.68	95.5	98.1	70.0-130			2.75	25
1,1,2-Trichloroethane	3.75	3.46	3.53	92.3	94.1	70.0-130			2.00	25
Trichloroethylene	3.75	3.44	3.49	91.7	93.1	70.0-130			1.44	25
1,2,4-Trimethylbenzene	3.75	3.85	3.95	103	105	70.0-130			2.56	25
1,3,5-Trimethylbenzene	3.75	3.80	3.86	101	103	70.0-130			1.57	25
2,2,4-Trimethylpentane	3.75	3.32	3.39	88.5	90.4	70.0-130			2.09	25
Vinyl chloride	3.75	3.36	3.24	89.6	86.4	70.0-130			3.64	25
Vinyl Bromide	3.75	3.58	3.44	95.5	91.7	70.0-130			3.99	25
Vinyl acetate	3.75	3.47	3.52	92.5	93.9	70.0-130			1.43	25
Xylenes, Total	11.3	10.9	11.2	96.5	99.1	70.0-130			2.71	25
m&p-Xylene	7.50	7.33	7.60	97.7	101	70.0-130			3.62	25
o-Xylene	3.75	3.60	3.61	96.0	96.3	70.0-130			0.277	25
(S) 1,4-Bromofluorobenzene				101	103	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

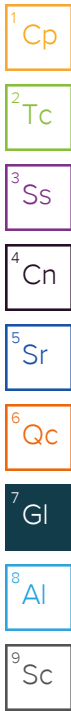
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Pace* Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: GHD - Indianapolis, IN
Street Address: 9855 Crosspoint Blvd, Suite 136 Indianapolis, IN 46256
City, State Zip:
Customer Project #: 12584838
Project Name: Kraft - Former CMW Facility
Site Collection Info/Facility ID (as applicable): GHDIIN-12584838
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Contact/Report To: Kyle Amberger
Phone #: 317-291-7007
E-Mail: kyle.amberger@ghd.com; matthew.groves@ghd.com; anaela.bown@ghd.com; timothy.branner@ghd.com; io
Cc E-Mail:
Invoice to:
Invoice E-Mail:
Purchase Order # (if applicable): 340-016426
Quote #:
State origin of sample(s):



Scan QR code for instructions

J150

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:
Rush (Pre-approval required): 2 Day 3 day 5 day Other
Permit # as applicable:
Date Results Requested: ST TAT
Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

AS 1.29.24
Proj. Manager: 829 - Brittnie L Boyd
AcctNum / Client ID: GHDIIN
Table #:
Profile / Template: T234717
Prelog / Bottle Ord. ID: P1051520
L1701926
Sample Comment: -01 -02

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Table with columns: Customer Sample ID, Matrix, Summa Canister ID, Flow Controller ID, Begin Collection (Date, Time), End Collection (Date, Time)

Table with columns: Canister (Pressure / Vacuum), PUF / FILTER, Start Pressure / Vacuum (in Hg), End Pressure / Vacuum (in Hg), Duration (minutes), Flow Rate (m³/min or L/min), Total Volume (m³ or L)

TO-15 Summa

Sample Receipt Checklist
COC seal Present/Intact: [X] Y [] N
COC Signed/Accurate: [X] Y [] N
Bottles arrive intact: [X] Y [] N
Correct bottles used: [X] Y [] N
Airs: 2
Size: 1L
Tape Color: G W P B
Shunt

Customer Remarks / Special Conditions / Possible Hazards:

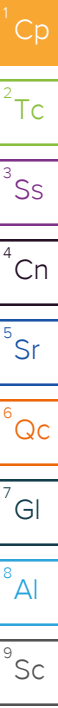
Collected By: GHD
Printed Name: Audrey Hawthorn and Scott Shaker
Signature: Audrey Hawthorn

Additional Instructions from Pace*:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company (Signature): [Signature] / GHD
Date/Time: 2/16/24 1030

Received by/Company (Signature): [Signature]
Date/Time: [Signature]

Tracking Number:
Delivered by: In-Person Courier
FedEX UPS Other



GHD - Indianapolis, IN

Sample Delivery Group: L1706929
Samples Received: 02/17/2024
Project Number: 12584838
Description: Kraft - Former CMW Facility

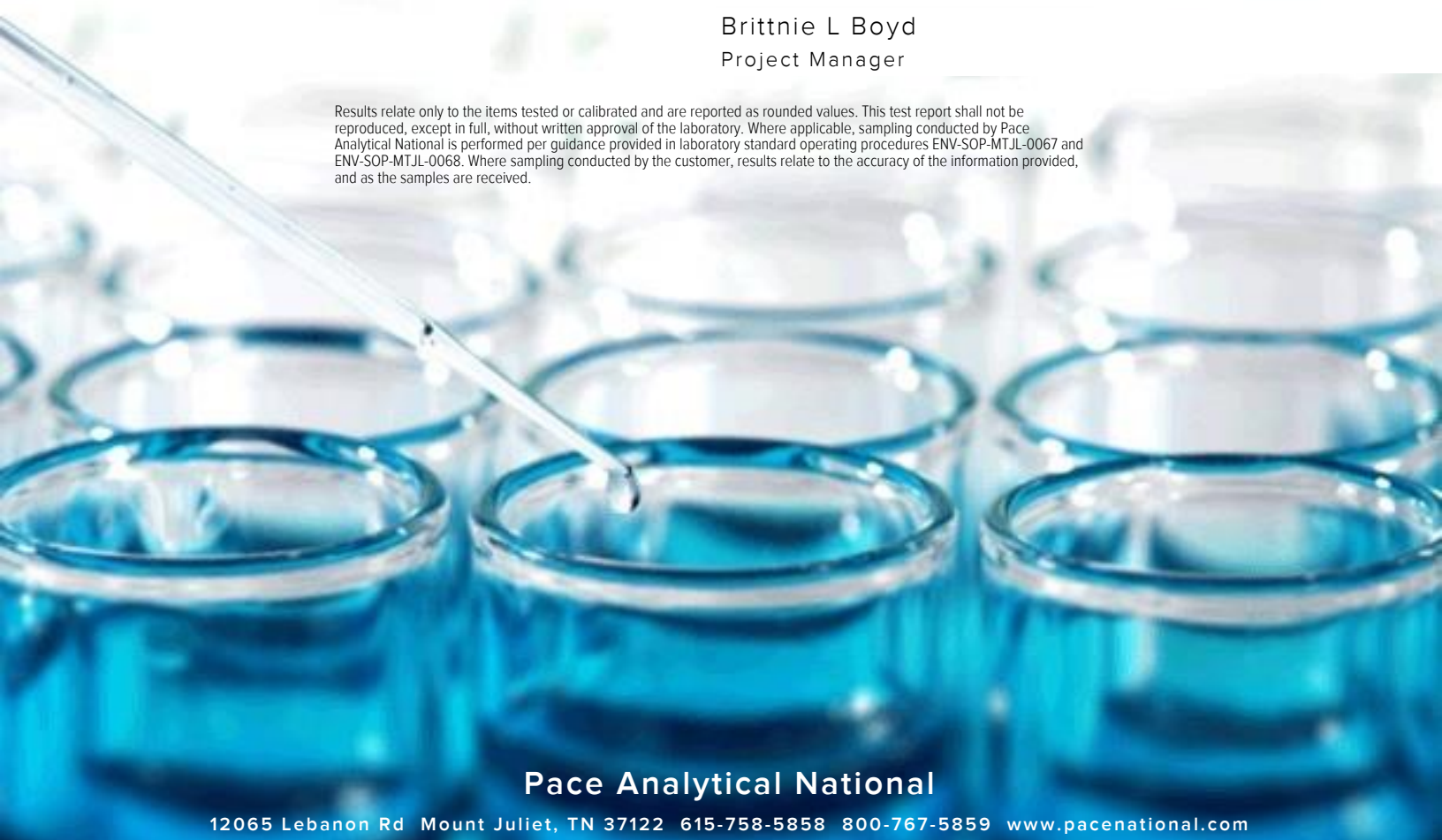
Report To: Kyle Amberger
9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256

Entire Report Reviewed By:



Brittne L Boyd
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

AA-02142024-AH-001 L1706929-01 Air

Collected by AH/SS Collected date/time 02/15/24 12:12 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 23:19	02/19/24 23:19	MNP	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

IA-02142024-AH-004 L1706929-02 Air

Collected by AH/SS Collected date/time 02/15/24 12:38 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/20/24 00:02	02/20/24 00:02	MSC	Mt. Juliet, TN

⁴ Cn

⁵ Sr

IA-02142024-AH-005 L1706929-03 Air

Collected by AH/SS Collected date/time 02/15/24 12:37 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/20/24 00:45	02/20/24 00:45	MNP	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.53	6.01		1	WG2229358
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2229358
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229358
Chloromethane	74-87-3	50.50	0.200	0.413	0.569	1.18		1	WG2229358
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	4.43	8.35	B	1	WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.236	1.33		1	WG2229358
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.491	2.43		1	WG2229358
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	5.95	17.5		1	WG2229358
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229358
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229358
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229358
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229358
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229358
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2229358
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229358
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229358
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229358
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229358
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229358
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229358
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2229358
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2229358
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229358
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	13.1	31.1		1	WG2229358
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
Benzene	71-43-2	78.10	0.200	0.639	0.921	2.94		1	WG2229358
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229358
Chloromethane	74-87-3	50.50	0.200	0.413	2.66	5.49		1	WG2229358
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	225	424	E	1	WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	0.213	0.923		1	WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.243	1.37		1	WG2229358
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.476	2.35		1	WG2229358
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	5.62	16.6		1	WG2229358
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229358
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
Styrene	100-42-5	104	0.200	0.851	0.277	1.18		1	WG2229358
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
Toluene	108-88-3	92.10	0.500	1.88	1.74	6.55		1	WG2229358
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229358
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229358
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2229358
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.229	1.12		1	WG2229358
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229358
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229358
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229358
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229358
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229358
Xylenes, Total	1330-20-7	106.16	0.600	2.61	0.924	4.01		1	WG2229358
m&p-Xylene	179601-23-1	106	0.400	1.73	0.698	3.03		1	WG2229358
o-Xylene	95-47-6	106	0.200	0.867	0.226	0.980		1	WG2229358
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.8				WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.11	5.01		1	WG2229358
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
Benzene	71-43-2	78.10	0.200	0.639	0.212	0.677		1	WG2229358
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229358
Chloromethane	74-87-3	50.50	0.200	0.413	0.576	1.19		1	WG2229358
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	9.21	17.4		1	WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.249	1.40		1	WG2229358
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.443	2.19		1	WG2229358
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2229358
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229358
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229358
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229358
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229358
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229358
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2229358
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229358
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229358
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229358
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229358
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229358
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229358
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2229358
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2229358
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229358
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2229358

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4036598-2 02/19/24 14:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	0.493	U	0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4036598-2 02/19/24 14:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	99.1			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.13	3.17	83.5	84.5	70.0-130			1.27	25
Allyl chloride	3.75	3.27	3.31	87.2	88.3	70.0-130			1.22	25
Benzene	3.75	3.31	3.40	88.3	90.7	70.0-130			2.68	25
Benzyl Chloride	3.75	3.66	3.63	97.6	96.8	70.0-152			0.823	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.59	3.58	95.7	95.5	70.0-130			0.279	25
Bromoform	3.75	3.60	3.70	96.0	98.7	70.0-130			2.74	25
Bromomethane	3.75	3.32	3.38	88.5	90.1	70.0-130			1.79	25
1,3-Butadiene	3.75	3.29	3.29	87.7	87.7	70.0-130			0.000	25
Carbon disulfide	3.75	3.14	3.13	83.7	83.5	70.0-130			0.319	25
Carbon tetrachloride	3.75	3.72	3.89	99.2	104	70.0-130			4.47	25
Chlorobenzene	3.75	3.53	3.55	94.1	94.7	70.0-130			0.565	25
Chloroethane	3.75	3.34	3.40	89.1	90.7	70.0-130			1.78	25
Chloroform	3.75	3.46	3.55	92.3	94.7	70.0-130			2.57	25
Chloromethane	3.75	3.27	3.40	87.2	90.7	70.0-130			3.90	25
2-Chlorotoluene	3.75	3.65	3.79	97.3	101	70.0-130			3.76	25
Cyclohexane	3.75	3.29	3.40	87.7	90.7	70.0-130			3.29	25
Dibromochloromethane	3.75	3.64	3.78	97.1	101	70.0-130			3.77	25
1,2-Dibromoethane	3.75	3.61	3.68	96.3	98.1	70.0-130			1.92	25
1,2-Dichlorobenzene	3.75	3.66	3.75	97.6	100	70.0-130			2.43	25
1,3-Dichlorobenzene	3.75	3.59	3.79	95.7	101	70.0-130			5.42	25
1,4-Dichlorobenzene	3.75	3.70	3.79	98.7	101	70.0-130			2.40	25
1,2-Dichloroethane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
1,1-Dichloroethane	3.75	3.36	3.35	89.6	89.3	70.0-130			0.298	25
1,1-Dichloroethene	3.75	3.46	3.37	92.3	89.9	70.0-130			2.64	25
cis-1,2-Dichloroethene	3.75	3.38	3.42	90.1	91.2	70.0-130			1.18	25
trans-1,2-Dichloroethene	3.75	3.47	3.46	92.5	92.3	70.0-130			0.289	25
1,2-Dichloropropane	3.75	3.23	3.37	86.1	89.9	70.0-130			4.24	25
cis-1,3-Dichloropropene	3.75	3.63	3.53	96.8	94.1	70.0-130			2.79	25
trans-1,3-Dichloropropene	3.75	3.54	3.59	94.4	95.7	70.0-130			1.40	25
1,4-Dioxane	3.75	3.60	3.47	96.0	92.5	70.0-140			3.68	25
Ethanol	3.75	3.41	3.33	90.9	88.8	55.0-148			2.37	25
Ethylbenzene	3.75	3.57	3.64	95.2	97.1	70.0-130			1.94	25
4-Ethyltoluene	3.75	3.72	3.81	99.2	102	70.0-130			2.39	25
Trichlorofluoromethane	3.75	3.81	3.84	102	102	70.0-130			0.784	25
Dichlorodifluoromethane	3.75	3.93	3.91	105	104	64.0-139			0.510	25
1,1,2-Trichlorotrifluoroethane	3.75	3.38	3.54	90.1	94.4	70.0-130			4.62	25
1,2-Dichlorotetrafluoroethane	3.75	3.63	3.59	96.8	95.7	70.0-130			1.11	25
Heptane	3.75	3.54	3.53	94.4	94.1	70.0-130			0.283	25
Hexachloro-1,3-butadiene	3.75	3.76	3.83	100	102	70.0-151			1.84	25
n-Hexane	3.75	3.41	3.32	90.9	88.5	70.0-130			2.67	25
Isopropylbenzene	3.75	3.71	3.73	98.9	99.5	70.0-130			0.538	25
Methylene Chloride	3.75	3.30	3.31	88.0	88.3	70.0-130			0.303	25
Methyl Butyl Ketone	3.75	3.91	3.78	104	101	70.0-149			3.38	25
2-Butanone (MEK)	3.75	3.33	3.40	88.8	90.7	70.0-130			2.08	25

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/24 14:15 • (LCSD) R4036598-3 02/19/24 15:42

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.81	3.54	102	94.4	70.0-139			7.35	25
Methyl methacrylate	3.75	3.44	3.38	91.7	90.1	70.0-130			1.76	25
MTBE	3.75	3.58	3.57	95.5	95.2	70.0-130			0.280	25
Naphthalene	3.75	3.86	3.87	103	103	70.0-159			0.259	25
2-Propanol	3.75	3.18	3.19	84.8	85.1	70.0-139			0.314	25
Propene	3.75	3.45	3.62	92.0	96.5	64.0-144			4.81	25
Styrene	3.75	3.71	3.70	98.9	98.7	70.0-130			0.270	25
1,1,2,2-Tetrachloroethane	3.75	3.41	3.40	90.9	90.7	70.0-130			0.294	25
Tetrachloroethylene	3.75	3.63	3.62	96.8	96.5	70.0-130			0.276	25
Tetrahydrofuran	3.75	3.39	3.31	90.4	88.3	70.0-137			2.39	25
Toluene	3.75	3.54	3.55	94.4	94.7	70.0-130			0.282	25
1,2,4-Trichlorobenzene	3.75	3.81	3.86	102	103	70.0-160			1.30	25
1,1,1-Trichloroethane	3.75	3.58	3.68	95.5	98.1	70.0-130			2.75	25
1,1,2-Trichloroethane	3.75	3.46	3.53	92.3	94.1	70.0-130			2.00	25
Trichloroethylene	3.75	3.44	3.49	91.7	93.1	70.0-130			1.44	25
1,2,4-Trimethylbenzene	3.75	3.85	3.95	103	105	70.0-130			2.56	25
1,3,5-Trimethylbenzene	3.75	3.80	3.86	101	103	70.0-130			1.57	25
2,2,4-Trimethylpentane	3.75	3.32	3.39	88.5	90.4	70.0-130			2.09	25
Vinyl chloride	3.75	3.36	3.24	89.6	86.4	70.0-130			3.64	25
Vinyl Bromide	3.75	3.58	3.44	95.5	91.7	70.0-130			3.99	25
Vinyl acetate	3.75	3.47	3.52	92.5	93.9	70.0-130			1.43	25
Xylenes, Total	11.3	10.9	11.2	96.5	99.1	70.0-130			2.71	25
m&p-Xylene	7.50	7.33	7.60	97.7	101	70.0-130			3.62	25
o-Xylene	3.75	3.60	3.61	96.0	96.3	70.0-130			0.277	25
(S) 1,4-Bromofluorobenzene				101	103	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

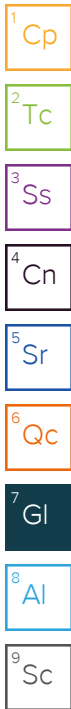
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J149

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		age: of	
Company: <u>GHDIIIN</u>		Report To: <u>Kyle Amberge@ghd.com</u>		Attention:		Program	
Address:		Copy To: <u>timothy.pranger@ghd.com</u>		Company Name:		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Email To:		<u>angela.bown@ghd.com</u>		Address:		Location of	
Phone:		Purchase Order No.: <u>340-016426</u>		Pace Quote Reference:		Reporting Units	
Fax:		Project Name: <u>Former CMW Facility</u>		Pace Project Manager/Sales Rep. <u>Brian L Boyd</u>		ug/m ³ _____ mg/m ³ _____ PPEV _____ PPMV _____ Other _____	
Requested Due Date/TAT: <u>ST TAT</u>		Project Number: <u>12584838</u>		Pace Profile #:		Report Level I. II. III. IV. Other _____	

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:							Face Lab ID		
					COMPOSITE START		COMPOSITE -						PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14		TO-15	TO-15 Short List
					DATE	TIME	DATE	TIME														
1	AA-02142024-AH-001		6LC		2/14	1325	2/15	1212	-29	-3	24614	029457								X	-01	
2	IA-02142024-AH-004		6LC		2/14	1403	2/15	1238	-28	0	15125	010035									X	-02
3	IA-02142024-AH-005		6LC		2/14	1403	2/15	1237	-30	-4	15346	029554									X	-03
4																						
5																						
6																						
7	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Size: <u>3</u> 1L <u>6</u> 1.4L Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tege Color: <u>G</u> <u>W</u> <u>P</u> <u>B</u> Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tubing <u>Shunt</u>																					
8	T/R#:																					
9																						
10																						
11																						
12																						

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
		<u>Audrey H</u> / GHD	02/16	1030				Y/N	Y/N	Y/N	Y/N
				<u>Jamerson</u>	2-17-24	0900	Y/N	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Audrey Hawthorn and Scott Sholar

SIGNATURE of SAMPLER: Audrey H DATE Signed (MM/DD/YY): 02/16/24

Temp in °C _____

Received on Ice _____

Custody Sealed Cooler _____

Samples Intact _____

GHD - Indianapolis, IN

Sample Delivery Group: L1706947
Samples Received: 02/17/2024
Project Number: 12584838
Description: Kraft - Former CMW Facility

Report To: Kyle Amberger
9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256

Entire Report Reviewed By:



Brittnie L Boyd
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

SG-02142024-AH-008 L1706947-01 Air

Collected by AH/SS Collected date/time 02/14/24 17:50 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229763	1	02/20/24 12:41	02/20/24 12:41	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2233240	10	02/24/24 14:36	02/24/24 14:36	DBB	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

SG-02142024-AH-009 L1706947-02 Air

Collected by AH/SS Collected date/time 02/14/24 18:34 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229763	1	02/20/24 13:27	02/20/24 13:27	DAH	Mt. Juliet, TN

⁴ Cn

⁵ Sr

SG-02142024-AH-010 L1706947-03 Air

Collected by AH/SS Collected date/time 02/14/24 18:11 Received date/time 02/17/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2229763	1	02/20/24 14:14	02/20/24 14:14	DAH	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brittnie L Boyd
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	10.5	25.0		1	WG2229763
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229763
Benzene	71-43-2	78.10	0.200	0.639	0.438	1.40		1	WG2229763
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229763
Bromodichloromethane	75-27-4	164	0.200	1.34	0.260	1.74		1	WG2229763
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229763
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229763
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229763
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229763
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.858	5.40		1	WG2229763
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229763
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229763
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229763
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2229763
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229763
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229763
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229763
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229763
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229763
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229763
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229763
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229763
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.404	1.62		1	WG2229763
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	0.612	2.43		1	WG2229763
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	4.67	18.5		1	WG2229763
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229763
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229763
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229763
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229763
Ethanol	64-17-5	46.10	2.50	4.71	11.6	21.9		1	WG2229763
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229763
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229763
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2229763
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2229763
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229763
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229763
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229763
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229763
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229763
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229763
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229763
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229763
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2229763
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229763
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229763
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229763
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229763
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229763
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229763
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229763
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229763
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.933	6.33		1	WG2229763
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229763
Toluene	108-88-3	92.10	0.500	1.88	0.880	3.31		1	WG2229763
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229763

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	4.57	24.9		1	WG2229763
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229763
Trichloroethylene	79-01-6	131	2.00	10.7	110	589		10	WG2233240
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.303	1.49		1	WG2229763
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229763
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229763
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229763
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229763
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229763
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2229763
m&p-Xylene	179601-23-1	106	0.400	1.73	0.416	1.80		1	WG2229763
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229763
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2229763
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		93.8				WG2233240

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	21.0	49.9		1	WG2229763
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229763
Benzene	71-43-2	78.10	0.200	0.639	0.314	1.00		1	WG2229763
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229763
Bromodichloromethane	75-27-4	164	0.200	1.34	1.08	7.24		1	WG2229763
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229763
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229763
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229763
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.49	7.75		1	WG2229763
Carbon tetrachloride	56-23-5	154	0.200	1.26	1.15	7.24		1	WG2229763
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229763
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229763
Chloroform	67-66-3	119	0.200	0.973	5.89	28.7		1	WG2229763
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2229763
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229763
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229763
Dibromochloromethane	124-48-1	208	0.200	1.70	0.286	2.43		1	WG2229763
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229763
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229763
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229763
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229763
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229763
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229763
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229763
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	5.63	22.3		1	WG2229763
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229763
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229763
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229763
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229763
Ethanol	64-17-5	46.10	2.50	4.71	20.9	39.4		1	WG2229763
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229763
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229763
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2229763
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2229763
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229763
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229763
Heptane	142-82-5	100	0.200	0.818	0.301	1.23		1	WG2229763
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229763
n-Hexane	110-54-3	86.20	0.630	2.22	0.952	3.36		1	WG2229763
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229763
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229763
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229763
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.26	3.72		1	WG2229763
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229763
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229763
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229763
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229763
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229763
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229763
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229763
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229763
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.367	2.49		1	WG2229763
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229763
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229763
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229763

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	3.39	18.4		1	WG2229763
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229763
Trichloroethylene	79-01-6	131	0.200	1.07	45.3	243		1	WG2229763
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229763
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229763
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.651	3.04		1	WG2229763
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229763
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229763
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229763
Xylenes, Total	1330-20-7	106.16	0.600	2.61	0.630	2.74		1	WG2229763
m&p-Xylene	179601-23-1	106	0.400	1.73	0.433	1.88		1	WG2229763
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229763
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2229763

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

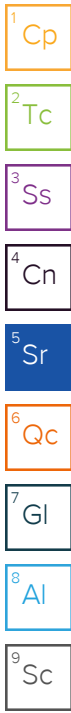
7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	21.9	52.0		1	WG2229763
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229763
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2229763
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229763
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229763
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229763
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229763
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229763
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229763
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229763
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229763
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229763
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2229763
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2229763
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229763
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229763
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229763
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229763
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229763
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229763
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229763
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229763
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229763
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229763
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229763
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229763
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229763
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229763
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229763
Ethanol	64-17-5	46.10	2.50	4.71	19.2	36.2		1	WG2229763
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229763
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229763
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2229763
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2229763
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229763
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229763
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229763
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229763
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229763
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229763
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229763
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229763
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.42	4.19		1	WG2229763
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229763
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229763
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229763
Naphthalene	91-20-3	128	0.630	3.30	10.4	54.4		1	WG2229763
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229763
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229763
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229763
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229763
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229763
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229763
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229763
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229763



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2229763
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2229763
Trichloroethylene	79-01-6	131	0.200	1.07	0.386	2.07		1	WG2229763
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2229763
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2229763
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2229763
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2229763
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2229763
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2229763
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2229763
m&p-Xylene	179601-23-1	106	0.400	1.73	ND	ND		1	WG2229763
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2229763
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2229763

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4036608-2 02/20/24 10:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4036608-2 02/20/24 10:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.315	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	98.5			60.0-140

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036608-1 02/20/24 10:03 • (LCSD) R4036608-3 02/20/24 11:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.63	3.71	96.8	98.9	70.0-130			2.18	25
Allyl chloride	3.75	4.46	4.20	119	112	70.0-130			6.00	25
Benzene	3.75	3.95	3.95	105	105	70.0-130			0.000	25
Benzyl Chloride	3.75	3.83	3.69	102	98.4	70.0-152			3.72	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036608-1 02/20/24 10:03 • (LCSD) R4036608-3 02/20/24 11:40

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.70	3.74	98.7	99.7	70.0-130			1.08	25
Bromoform	3.75	3.82	3.72	102	99.2	70.0-130			2.65	25
Bromomethane	3.75	3.49	3.49	93.1	93.1	70.0-130			0.000	25
1,3-Butadiene	3.75	3.70	3.50	98.7	93.3	70.0-130			5.56	25
Carbon disulfide	3.75	3.88	3.94	103	105	70.0-130			1.53	25
Carbon tetrachloride	3.75	4.02	3.91	107	104	70.0-130			2.77	25
Chlorobenzene	3.75	3.96	4.04	106	108	70.0-130			2.00	25
Chloroethane	3.75	3.37	3.25	89.9	86.7	70.0-130			3.63	25
Chloroform	3.75	3.80	3.75	101	100	70.0-130			1.32	25
Chloromethane	3.75	3.86	3.69	103	98.4	70.0-130			4.50	25
2-Chlorotoluene	3.75	4.15	4.11	111	110	70.0-130			0.969	25
Cyclohexane	3.75	3.87	3.73	103	99.5	70.0-130			3.68	25
Dibromochloromethane	3.75	3.80	3.77	101	101	70.0-130			0.793	25
1,2-Dibromoethane	3.75	4.08	3.95	109	105	70.0-130			3.24	25
1,2-Dichlorobenzene	3.75	4.25	4.09	113	109	70.0-130			3.84	25
1,3-Dichlorobenzene	3.75	4.17	4.12	111	110	70.0-130			1.21	25
1,4-Dichlorobenzene	3.75	4.09	3.95	109	105	70.0-130			3.48	25
1,2-Dichloroethane	3.75	4.16	3.97	111	106	70.0-130			4.67	25
1,1-Dichloroethane	3.75	3.77	3.92	101	105	70.0-130			3.90	25
1,1-Dichloroethene	3.75	3.90	3.94	104	105	70.0-130			1.02	25
cis-1,2-Dichloroethene	3.75	3.90	3.88	104	103	70.0-130			0.514	25
trans-1,2-Dichloroethene	3.75	3.93	3.84	105	102	70.0-130			2.32	25
1,2-Dichloropropane	3.75	3.92	3.94	105	105	70.0-130			0.509	25
cis-1,3-Dichloropropene	3.75	3.84	3.75	102	100	70.0-130			2.37	25
trans-1,3-Dichloropropene	3.75	3.84	3.84	102	102	70.0-130			0.000	25
1,4-Dioxane	3.75	2.72	3.49	72.5	93.1	70.0-140			24.8	25
Ethanol	3.75	2.85	3.16	76.0	84.3	55.0-148			10.3	25
Ethylbenzene	3.75	4.09	3.95	109	105	70.0-130			3.48	25
4-Ethyltoluene	3.75	4.11	4.00	110	107	70.0-130			2.71	25
Trichlorofluoromethane	3.75	4.05	3.89	108	104	70.0-130			4.03	25
Dichlorodifluoromethane	3.75	3.99	3.97	106	106	64.0-139			0.503	25
1,1,2-Trichlorotrifluoroethane	3.75	3.96	3.93	106	105	70.0-130			0.760	25
1,2-Dichlorotetrafluoroethane	3.75	3.92	3.95	105	105	70.0-130			0.762	25
Heptane	3.75	3.63	3.61	96.8	96.3	70.0-130			0.552	25
Hexachloro-1,3-butadiene	3.75	4.13	4.04	110	108	70.0-151			2.20	25
n-Hexane	3.75	3.64	3.61	97.1	96.3	70.0-130			0.828	25
Isopropylbenzene	3.75	4.03	3.97	107	106	70.0-130			1.50	25
Methylene Chloride	3.75	3.94	4.05	105	108	70.0-130			2.75	25
Methyl Butyl Ketone	3.75	3.77	3.93	101	105	70.0-149			4.16	25
2-Butanone (MEK)	3.75	4.22	3.89	113	104	70.0-130			8.14	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036608-1 02/20/24 10:03 • (LCSD) R4036608-3 02/20/24 11:40

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.60	3.58	96.0	95.5	70.0-139			0.557	25
Methyl methacrylate	3.75	3.60	3.46	96.0	92.3	70.0-130			3.97	25
MTBE	3.75	3.83	3.79	102	101	70.0-130			1.05	25
Naphthalene	3.75	4.45	4.26	119	114	70.0-159			4.36	25
2-Propanol	3.75	2.94	3.21	78.4	85.6	70.0-139			8.78	25
Propene	3.75	3.52	3.52	93.9	93.9	64.0-144			0.000	25
Styrene	3.75	3.95	3.73	105	99.5	70.0-130			5.73	25
1,1,2,2-Tetrachloroethane	3.75	3.89	3.82	104	102	70.0-130			1.82	25
Tetrachloroethylene	3.75	4.05	4.09	108	109	70.0-130			0.983	25
Tetrahydrofuran	3.75	3.50	3.28	93.3	87.5	70.0-137			6.49	25
Toluene	3.75	4.00	3.88	107	103	70.0-130			3.05	25
1,2,4-Trichlorobenzene	3.75	4.18	4.07	111	109	70.0-160			2.67	25
1,1,1-Trichloroethane	3.75	3.80	3.75	101	100	70.0-130			1.32	25
1,1,2-Trichloroethane	3.75	3.63	3.64	96.8	97.1	70.0-130			0.275	25
Trichloroethylene	3.75	3.90	3.84	104	102	70.0-130			1.55	25
1,2,4-Trimethylbenzene	3.75	3.98	3.82	106	102	70.0-130			4.10	25
1,3,5-Trimethylbenzene	3.75	4.79	3.83	128	102	70.0-130			22.3	25
2,2,4-Trimethylpentane	3.75	3.82	3.80	102	101	70.0-130			0.525	25
Vinyl chloride	3.75	3.87	3.74	103	99.7	70.0-130			3.42	25
Vinyl Bromide	3.75	4.04	3.77	108	101	70.0-130			6.91	25
Vinyl acetate	3.75	3.53	3.46	94.1	92.3	70.0-130			2.00	25
Xylenes, Total	11.3	12.1	11.7	107	104	70.0-130			3.36	25
m&p-Xylene	7.50	8.13	7.88	108	105	70.0-130			3.12	25
o-Xylene	3.75	3.95	3.84	105	102	70.0-130			2.82	25
(S) 1,4-Bromofluorobenzene				100	97.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4037851-3 02/24/24 08:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Trichloroethylene	U		0.0680	0.200
<i>(S) 1,4-Bromofluorobenzene</i>	100			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4037851-1 02/24/24 07:07 • (LCSD) R4037851-2 02/24/24 07:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Trichloroethylene	3.75	3.71	3.60	98.9	96.0	70.0-130			3.01	25
<i>(S) 1,4-Bromofluorobenzene</i>				101	107	60.0-140				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

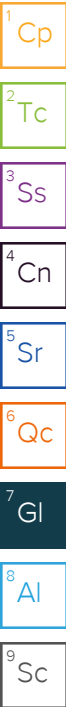
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Pace* Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Company Name:
GHD - Indianapolis, IN

Contact/Report To:
Kyle Amberger



Scan QR code for instructions

J155

Street Address:
**9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256**

Phone #: **317-291-7007**
E-Mail: **kyle.amberger@ghd.com; matthew.groves@ghd.com; annela.bown@ghd.com; timothy.branner@ghd.com; io**

City, State Zip:
Indianapolis, IN 46256

Cc E-Mail:
io

Customer Project #: **12584838**

Invoice to:

Project Name:
Kraft - Former CMW Facility

Invoice E-Mail:

Site Collection Info/Facility ID (as applicable):
GHDIIIN-12584838

Purchase Order # (if applicable): **340-016426**
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

State origin of sample(s):

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:
Rush (Pre-approval required):
2 Day 3 day 5 day Other
Permit # as applicable:
Date Results Requested: **ST TAT**
Units for Reporting: ug/m³ PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)
				Date	Time	Date	Time					
SG-02142024-AH-008	0	12683	012353	2/14	1738	2/14	1750	-29	-4			X
SG-02142024-AH-009	0	23863	013611	2/14	1821	2/14	1834	-28	-4			X
SG-02142024-AH-010	0	28110	013368	2/14	1757	2/14	1811	-30	-3			X

Field Information

Canister Pressure / Vacuum

Start Pressure / End Pressure / Duration / Flow Rate / Total Volume

Vacuum (in Hg)	Vacuum (in Hg)	(minutes)	m ³ /min or L/min	m ³ or L
-29	-4			
-28	-4			
-30	-3			

Analyses Requested

Proj. Manager:
829 - Brittnie L Boyd

AcctNum / Client ID:
GHDIIIN

Table #:

Profile / Template:
T234717

Prelog / Bottle Ord. ID:
P1051520

Lab Use Only

TO-15 Summa

Sample Comment:
4706947
-01
-02
-03

Sample Receipt Checklist

COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N Size: **3** Airs
Bottles arrive intact: Y N Tare Color: G W P B 1.4L
Correct bottles used: Y N Tubing Shunt

T/P#:

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: **GHD**
Printed Name: **Audrey Hawthorn and Scott Sholar**
Signature: *Audrey Hawthorn*

Additional Instructions from Pace*:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature) *Audrey Hawthorn / GHD*
Date/Time: **2/16/24 1030**

Relinquished by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time:

Received by/Company: (Signature)
Date/Time: **2-17-24**

Tracking Number:

Delivered by: In-Person Courier
FedEX UPS Other

Page: of:

GHD - Indianapolis, IN

Sample Delivery Group: L1601225
Samples Received: 03/31/2023
Project Number: 12584838
Description: Kraft - Former CMW Facility

Report To: Michael Richardson / Kyle Ambesger
9855 Crosspoint Blvd, Suite 136
Indianapolis, IN 46256

Entire Report Reviewed By:












Brittnie L Boyd
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

AC-033023-TP-001 L1601225-01 Air

Collected by
Collected date/time
Received date/time

03/28/23 09:14
03/31/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 19:40	04/09/23 19:40	SDS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

IA-033023-TP-002 L1601225-02 Air

Collected by
Collected date/time
Received date/time

03/30/23 09:15
03/31/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 20:18	04/09/23 20:18	SDS	Mt. Juliet, TN

⁴Cn

⁵Sr

IA-033023-TP-003 L1601225-03 Air

Collected by
Collected date/time
Received date/time

03/30/23 09:15
03/31/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 20:55	04/09/23 20:55	SDS	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

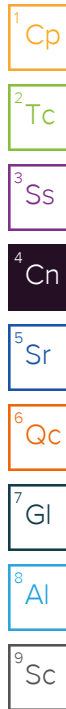
⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brittnie L Boyd
Project Manager



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.26	12.5		1	WG2038725
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2038725
Benzene	71-43-2	78.10	0.200	0.639	0.252	0.805		1	WG2038725
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2038725
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2038725
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2038725
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2038725
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2038725
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2038725
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2038725
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2038725
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2038725
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2038725
Chloromethane	74-87-3	50.50	0.200	0.413	0.772	1.59		1	WG2038725
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2038725
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2038725
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2038725
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2038725
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2038725
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2038725
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2038725
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2038725
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2038725
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2038725
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2038725
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2038725
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2038725
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2038725
Ethanol	64-17-5	46.10	1.25	2.36	24.7	46.6		1	WG2038725
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2038725
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2038725
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.273	1.53		1	WG2038725
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.570	2.82		1	WG2038725
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2038725
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2038725
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2038725
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2038725
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2038725
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2038725
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2038725
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2038725
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2038725
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2038725
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2038725
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725
2-Propanol	67-63-0	60.10	1.25	3.07	1.37	3.37		1	WG2038725
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2038725
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2038725
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2038725
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2038725
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2038725
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2038725
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2038725
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2038725
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2038725
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.326	1.60		1	WG2038725
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2038725
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2038725
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2038725
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2038725
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2038725
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2038725
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG2038725
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2038725
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.0				WG2038725

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	18.5	44.0		1	WG2038725
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2038725
Benzene	71-43-2	78.10	0.200	0.639	1.37	4.38		1	WG2038725
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2038725
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2038725
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2038725
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2038725
1,3-Butadiene	106-99-0	54.10	2.00	4.43	2.14	4.74		1	WG2038725
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2038725
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2038725
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2038725
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2038725
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2038725
Chloromethane	74-87-3	50.50	0.200	0.413	2.50	5.16		1	WG2038725
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2038725
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2038725
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2038725
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2038725
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2038725
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2038725
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2038725
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2038725
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2038725
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2038725
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2038725
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2038725
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2038725
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2038725
Ethanol	64-17-5	46.10	1.25	2.36	228	430	E	1	WG2038725
Ethylbenzene	100-41-4	106	0.200	0.867	0.261	1.13		1	WG2038725
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2038725
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.267	1.50		1	WG2038725
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.560	2.77		1	WG2038725
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2038725
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2038725
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2038725
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2038725
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2038725
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2038725
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2038725
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2038725
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.74	5.13		1	WG2038725
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2038725
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2038725
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725
2-Propanol	67-63-0	60.10	1.25	3.07	2.54	6.24		1	WG2038725
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2038725
Styrene	100-42-5	104	0.200	0.851	0.317	1.35		1	WG2038725
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2038725
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2038725
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2038725
Toluene	108-88-3	92.10	0.500	1.88	2.26	8.51		1	WG2038725
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2038725
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2038725
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2038725
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2038725
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2038725
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2038725
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2038725
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2038725
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2038725
Xylenes, Total	1330-20-7	106.16	0.600	2.61	1.05	4.56		1	WG2038725
m&p-Xylene	1330-20-7	106	0.400	1.73	0.835	3.62		1	WG2038725
o-Xylene	95-47-6	106	0.200	0.867	0.219	0.949		1	WG2038725
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.8				WG2038725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	9.13	21.7		1	WG2038725
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2038725
Benzene	71-43-2	78.10	0.200	0.639	0.501	1.60		1	WG2038725
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2038725
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2038725
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2038725
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2038725
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2038725
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2038725
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2038725
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2038725
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2038725
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2038725
Chloromethane	74-87-3	50.50	0.200	0.413	1.20	2.48		1	WG2038725
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2038725
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2038725
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2038725
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2038725
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2038725
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2038725
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2038725
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2038725
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2038725
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2038725
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2038725
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2038725
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2038725
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2038725
Ethanol	64-17-5	46.10	1.25	2.36	192	362	E	1	WG2038725
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2038725
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2038725
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.333	1.87		1	WG2038725
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.581	2.87		1	WG2038725
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2038725
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2038725
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2038725
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2038725
n-Hexane	110-54-3	86.20	0.630	2.22	0.809	2.85		1	WG2038725
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2038725
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2038725
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2038725
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2038725
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2038725
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2038725
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725
2-Propanol	67-63-0	60.10	1.25	3.07	7.73	19.0		1	WG2038725
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2038725
Styrene	100-42-5	104	0.200	0.851	0.229	0.974		1	WG2038725
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2038725
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.332	2.25		1	WG2038725
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2038725
Toluene	108-88-3	92.10	0.500	1.88	1.32	4.97		1	WG2038725
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2038725
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2038725
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2038725
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2038725
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2038725
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.236	1.10		1	WG2038725
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2038725
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2038725
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG2038725
Xylenes, Total	1330-20-7	106.16	0.600	2.61	ND	ND		1	WG2038725
m&p-Xylene	1330-20-7	106	0.400	1.73	0.426	1.85		1	WG2038725
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2038725
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.3				WG2038725

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3911885-2 04/09/23 10:33

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethanol	U		0.265	1.25
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3911885-2 04/09/23 10:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.170	U	0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	98.1			60.0-140

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3911885-1 04/09/23 09:56 • (LCSD) R3911885-3 04/09/23 11:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.80	3.72	101	99.2	70.0-130			2.13	25
Allyl Chloride	3.75	4.01	3.89	107	104	70.0-130			3.04	25
Benzene	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Benzyl Chloride	3.75	4.17	4.18	111	111	70.0-152			0.240	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3911885-1 04/09/23 09:56 • (LCSD) R3911885-3 04/09/23 11:17

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.86	3.89	103	104	70.0-130			0.774	25
Bromoform	3.75	4.06	4.04	108	108	70.0-130			0.494	25
Bromomethane	3.75	3.71	4.47	98.9	119	70.0-130			18.6	25
1,3-Butadiene	3.75	3.90	3.26	104	86.9	70.0-130			17.9	25
Carbon disulfide	3.75	3.96	3.73	106	99.5	70.0-130			5.98	25
Carbon tetrachloride	3.75	4.00	3.94	107	105	70.0-130			1.51	25
Chlorobenzene	3.75	4.15	4.03	111	107	70.0-130			2.93	25
Chloroethane	3.75	3.59	4.57	95.7	122	70.0-130			24.0	25
Chloroform	3.75	3.90	3.93	104	105	70.0-130			0.766	25
Chloromethane	3.75	4.33	3.89	115	104	70.0-130			10.7	25
2-Chlorotoluene	3.75	4.41	4.43	118	118	70.0-130			0.452	25
Cyclohexane	3.75	4.26	4.24	114	113	70.0-130			0.471	25
Dibromochloromethane	3.75	3.98	3.87	106	103	70.0-130			2.80	25
1,2-Dibromoethane	3.75	4.03	3.96	107	106	70.0-130			1.75	25
1,2-Dichlorobenzene	3.75	4.41	4.40	118	117	70.0-130			0.227	25
1,3-Dichlorobenzene	3.75	4.46	4.50	119	120	70.0-130			0.893	25
1,4-Dichlorobenzene	3.75	4.66	4.64	124	124	70.0-130			0.430	25
1,2-Dichloroethane	3.75	3.91	3.91	104	104	70.0-130			0.000	25
1,1-Dichloroethane	3.75	3.97	3.92	106	105	70.0-130			1.27	25
1,1-Dichloroethene	3.75	4.19	3.85	112	103	70.0-130			8.46	25
cis-1,2-Dichloroethene	3.75	3.84	3.78	102	101	70.0-130			1.57	25
trans-1,2-Dichloroethene	3.75	4.09	3.92	109	105	70.0-130			4.24	25
1,2-Dichloropropane	3.75	3.77	3.85	101	103	70.0-130			2.10	25
cis-1,3-Dichloropropene	3.75	3.89	4.05	104	108	70.0-130			4.03	25
trans-1,3-Dichloropropene	3.75	3.90	3.97	104	106	70.0-130			1.78	25
1,4-Dioxane	3.75	3.79	3.86	101	103	70.0-140			1.83	25
Ethanol	3.75	3.51	4.23	93.6	113	55.0-148			18.6	25
Ethylbenzene	3.75	4.14	4.12	110	110	70.0-130			0.484	25
4-Ethyltoluene	3.75	4.51	4.49	120	120	70.0-130			0.444	25
Trichlorofluoromethane	3.75	3.77	4.66	101	124	70.0-130			21.1	25
Dichlorodifluoromethane	3.75	4.47	4.03	119	107	64.0-139			10.4	25
1,1,2-Trichlorotrifluoroethane	3.75	4.26	3.93	114	105	70.0-130			8.06	25
1,2-Dichlorotetrafluoroethane	3.75	4.38	3.89	117	104	70.0-130			11.9	25
Heptane	3.75	4.09	4.14	109	110	70.0-130			1.22	25
Hexachloro-1,3-butadiene	3.75	4.45	4.28	119	114	70.0-151			3.89	25
n-Hexane	3.75	4.31	4.22	115	113	70.0-130			2.11	25
Isopropylbenzene	3.75	4.38	4.34	117	116	70.0-130			0.917	25
Methylene Chloride	3.75	3.93	3.85	105	103	70.0-130			2.06	25
Methyl Butyl Ketone	3.75	3.67	3.58	97.9	95.5	70.0-149			2.48	25
Methyl Ethyl Ketone	3.75	3.89	3.89	104	104	70.0-130			0.000	25

1 Cp

2 Tc

3 Ss

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3911885-1 04/09/23 09:56 • (LCSD) R3911885-3 04/09/23 11:17

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.87	3.89	103	104	70.0-139			0.515	25
Methyl Methacrylate	3.75	3.85	3.92	103	105	70.0-130			1.80	25
MTBE	3.75	4.09	4.10	109	109	70.0-130			0.244	25
Naphthalene	3.75	4.71	4.51	126	120	70.0-159			4.34	25
2-Propanol	3.75	3.92	3.84	105	102	70.0-139			2.06	25
Propene	3.75	3.89	3.53	104	94.1	64.0-144			9.70	25
Styrene	3.75	4.25	4.30	113	115	70.0-130			1.17	25
1,1,2,2-Tetrachloroethane	3.75	4.09	4.12	109	110	70.0-130			0.731	25
Tetrachloroethylene	3.75	4.24	4.29	113	114	70.0-130			1.17	25
Tetrahydrofuran	3.75	3.94	3.99	105	106	70.0-137			1.26	25
Toluene	3.75	4.09	4.10	109	109	70.0-130			0.244	25
1,2,4-Trichlorobenzene	3.75	4.63	4.45	123	119	70.0-160			3.96	25
1,1,1-Trichloroethane	3.75	3.94	3.95	105	105	70.0-130			0.253	25
1,1,2-Trichloroethane	3.75	3.98	4.00	106	107	70.0-130			0.501	25
Trichloroethylene	3.75	3.99	3.93	106	105	70.0-130			1.52	25
1,2,4-Trimethylbenzene	3.75	4.54	4.50	121	120	70.0-130			0.885	25
1,3,5-Trimethylbenzene	3.75	4.52	4.49	121	120	70.0-130			0.666	25
2,2,4-Trimethylpentane	3.75	4.28	4.25	114	113	70.0-130			0.703	25
Vinyl chloride	3.75	4.19	3.68	112	98.1	70.0-130			13.0	25
Vinyl Bromide	3.75	3.81	4.86	102	130	70.0-130			24.2	25
Vinyl acetate	3.75	3.76	3.81	100	102	70.0-130			1.32	25
Xylenes, Total	11.3	12.7	12.6	112	112	70.0-130			0.791	25
m&p-Xylene	7.50	8.45	8.33	113	111	70.0-130			1.43	25
o-Xylene	3.75	4.27	4.28	114	114	70.0-130			0.234	25
(S) 1,4-Bromofluorobenzene				104	101	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

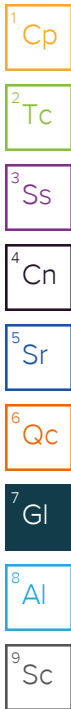
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





AIR: CHAIN-OF-CUSTODY / Analytical Request Form

1123

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

C 1601225

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: <u>GHD</u>		Report To: <u>Angela Brown</u>		Attention:		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Address: <u>9855 Roseport Blvd</u>		Copy To: <u>Kyle Amburger</u>		Company Name:		Location of Sampling by State: <u>IN</u>	
Suite <u>136</u> , <u>Indianapolis, IN</u>		Purchase Order No.:		Address:		Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____	
Email To:		Project Name: <u>CMS East Side US</u>		Pace Quote Reference:		Report Level: <u>II</u> <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other _____	
Phone: _____ Fax: _____		Project Number: <u>12584838-03</u>		Pace Project Manager/Sales Rep.:			
Requested Due Date/TAT: <u>Standard</u>				Pace Profile #:			

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10 3C-Fixed Gas (%) TD-3 TO-15M (Methane) TO-14 (PCBs) TO-13 (PAH) TO-14 TO-15 TO-15 Short List	Pace Lab ID
					COMPOSITE START END/GRAB		COMPOSITE -							
					DATE	TIME	DATE	TIME						
1	AL-033023-TP-001	6LL			3/20/23	943	3/20/23	914	-30	0	27441097		01	
2	IA-033023-TP-002	6LL			3/20/23	942	3/20/23	915	-30	-3	08481500		-02	
3	IA-033023-TP-003	6LL			3/20/23	942	3/20/23	915	-30	-4	11950102		-03	

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable

COC Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RAD Screen <0.5 mR/hr: Y N

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<u>Steve J...</u>	<u>3/20/23</u>	<u>17:00</u>	<u>[Signature]</u>	<u>3-21-23</u>	<u>1000</u>		Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Timothy L. Poirier

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 3/20/23

Temp in °C: _____

Received on Ice:

Custody Sealed Cooler:

Samples Intact:

3/31 NCF- GHD-L1601225

R5

Time estimate: oh

Time spent: oh

Members



Nicolle Faulk (responsible)



Brittnie Boyd

Due on 7 April 2023 5:00 PM for target Done

- Login Clarification needed
- Chain of custody is incomplete
- Please specify Metals requested
- Please specify TCLP requested
- Received additional samples not listed on COC
- Sample IDs on containers do not match IDs on COC
- Client did not "X" analysis
- Chain of Custody is missing
- If no COC: Received by: _____
- If no COC: Date/Time: _____
- If no COC: Temp./Cont.Rec./pH: _____
- If no COC: Carrier: _____
- If no COC: Tracking #: _____
- Client informed by call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: 04/03 1038 _____
- PM initials: BB _____
- Client Contact: Michael Richardson _____

Comments

- Nicolle Faulk
please clarify analysis
31 March 2023 6:03 PM
- Brittnie Boyd
Please log under GHDIIN-12584838 and log samples for TO-15
3 April 2023 10:38 AM
- Nicolle Faulk
done
4 April 2023 7:57 AM