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Our ref: 12584838-LTR-23

June 20, 2024

Mr. Jeffrey Kavanaugh Senior Environmental Manager Indiana Department of Environmental Management 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015

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 #000000396). 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 (µg/m³) (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.

 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.

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.

- 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 μg/m³) its respective RIAPL (1.0 μg/m³) in the sample collected from the main level. Site-specific analytical results are included in Table 3.

- 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 μg/m³ but was detected below the RIAPL in the corresponding field duplicate at 1.60 μg/m³. Due to no detections higher than the RIAPL in previous sampling events, this low-level exceedance of 4.38 μg/m³ 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 μg/m³. Due to no detections higher than the RIAPL in previous sampling events, this low-level exceedance of 6.74 μg/m³ 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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Environmental Scientist

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BE/Is/LTR-23

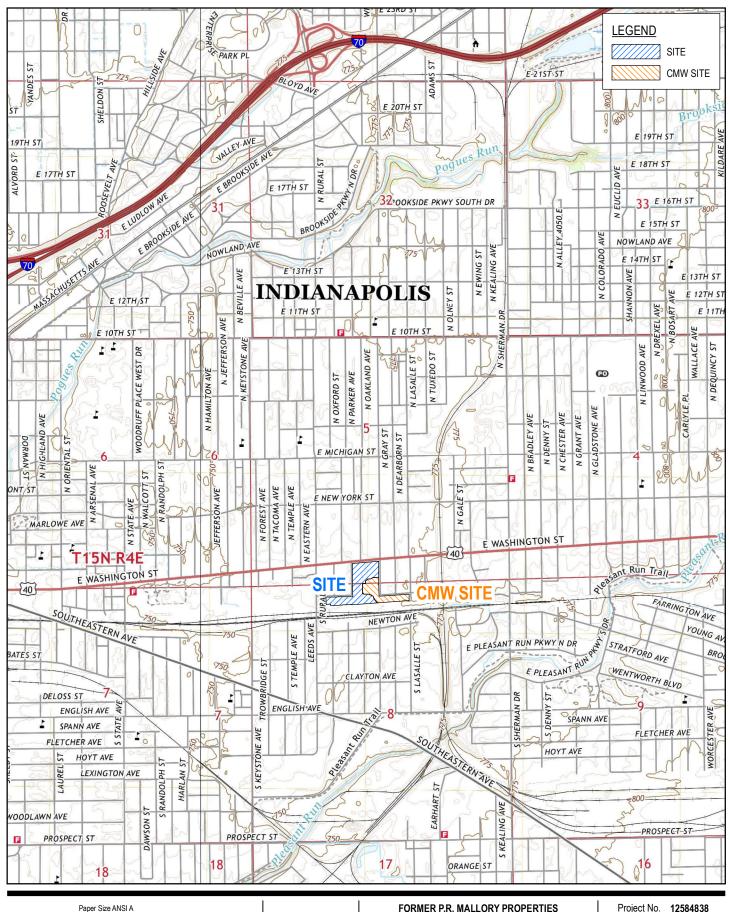
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Jennifer Nijman David Gillay Walter J. Pochron **Kyle Amberger, LPG** Senior Geologist

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Figures





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



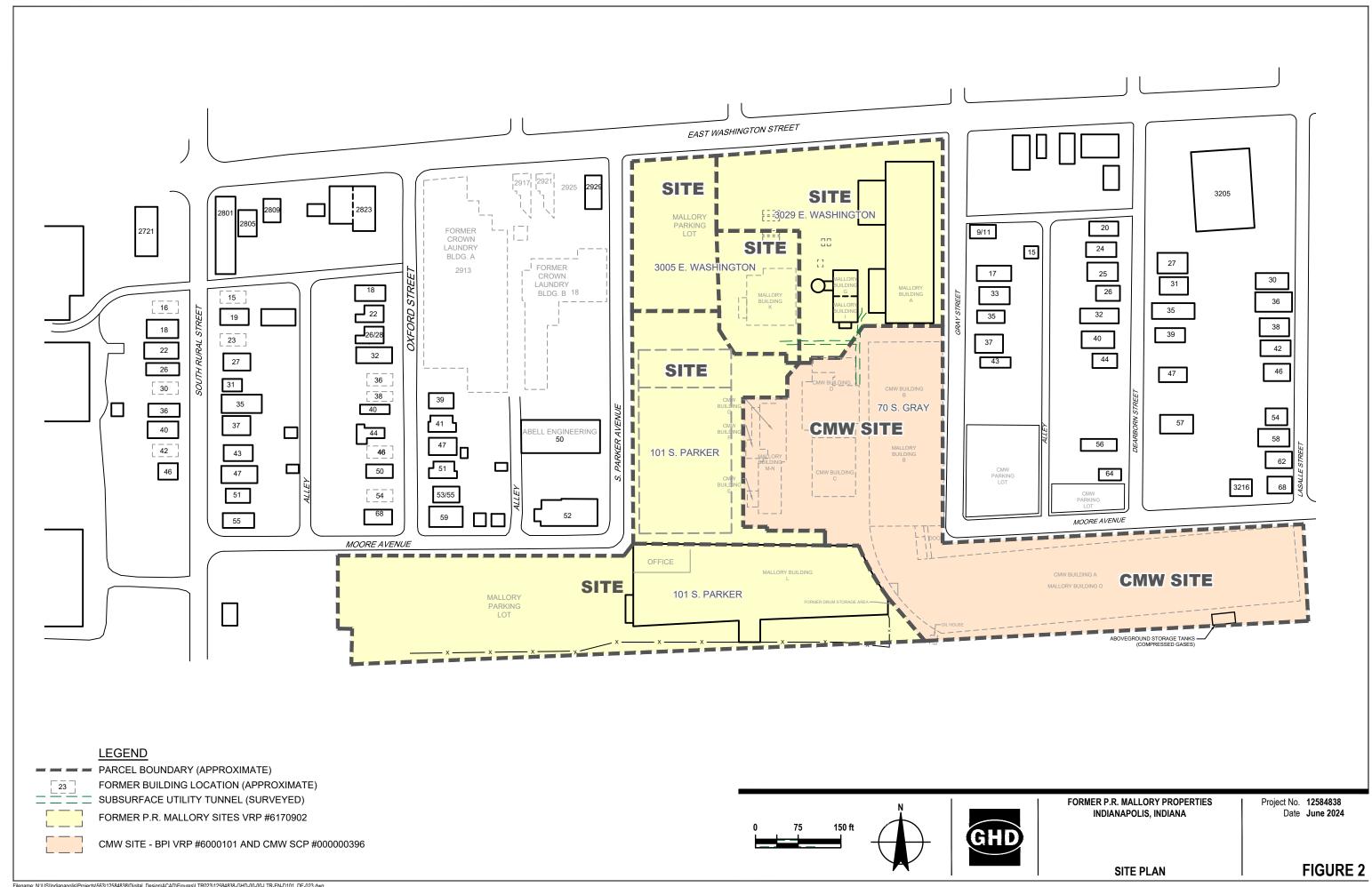
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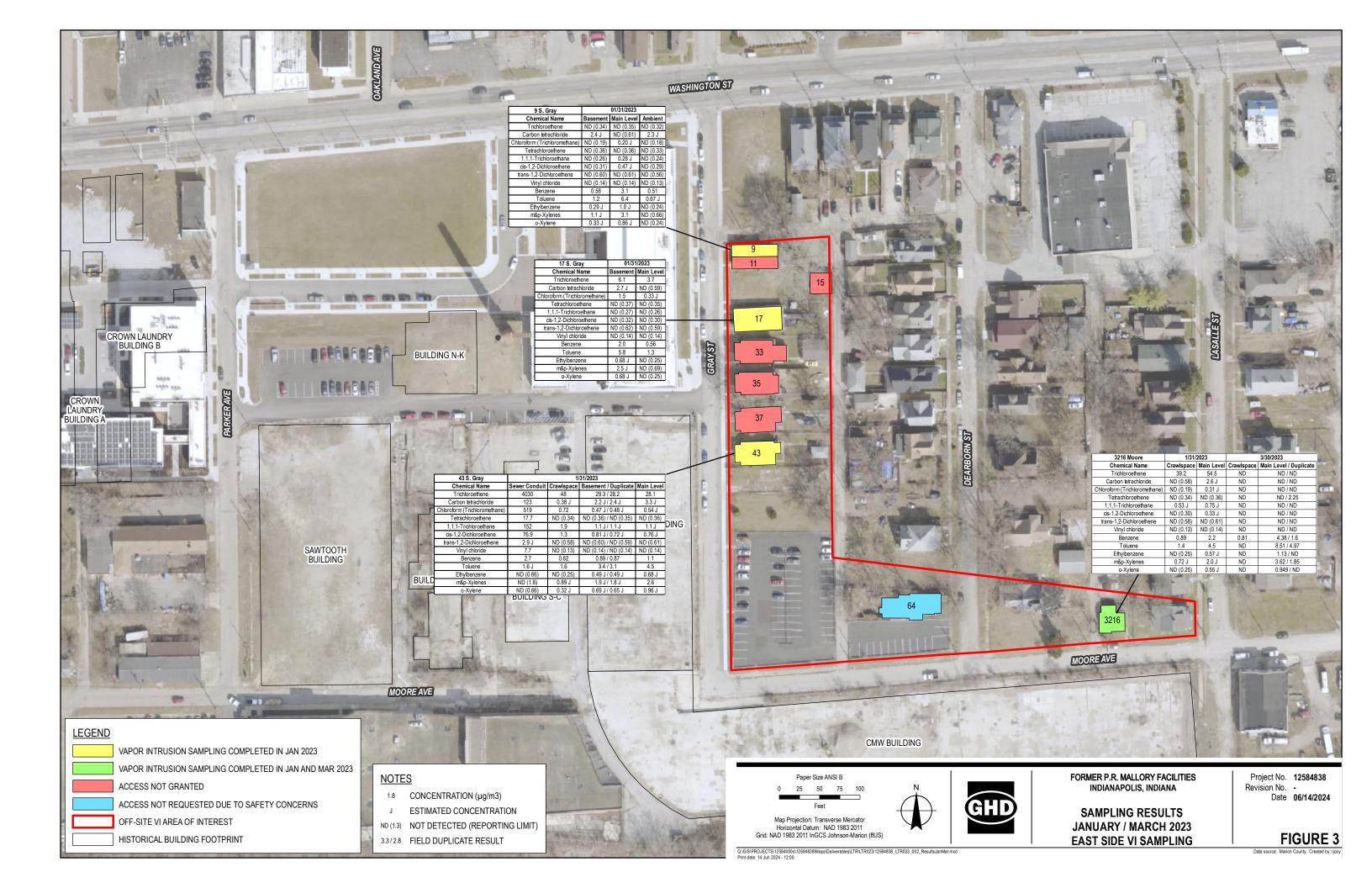
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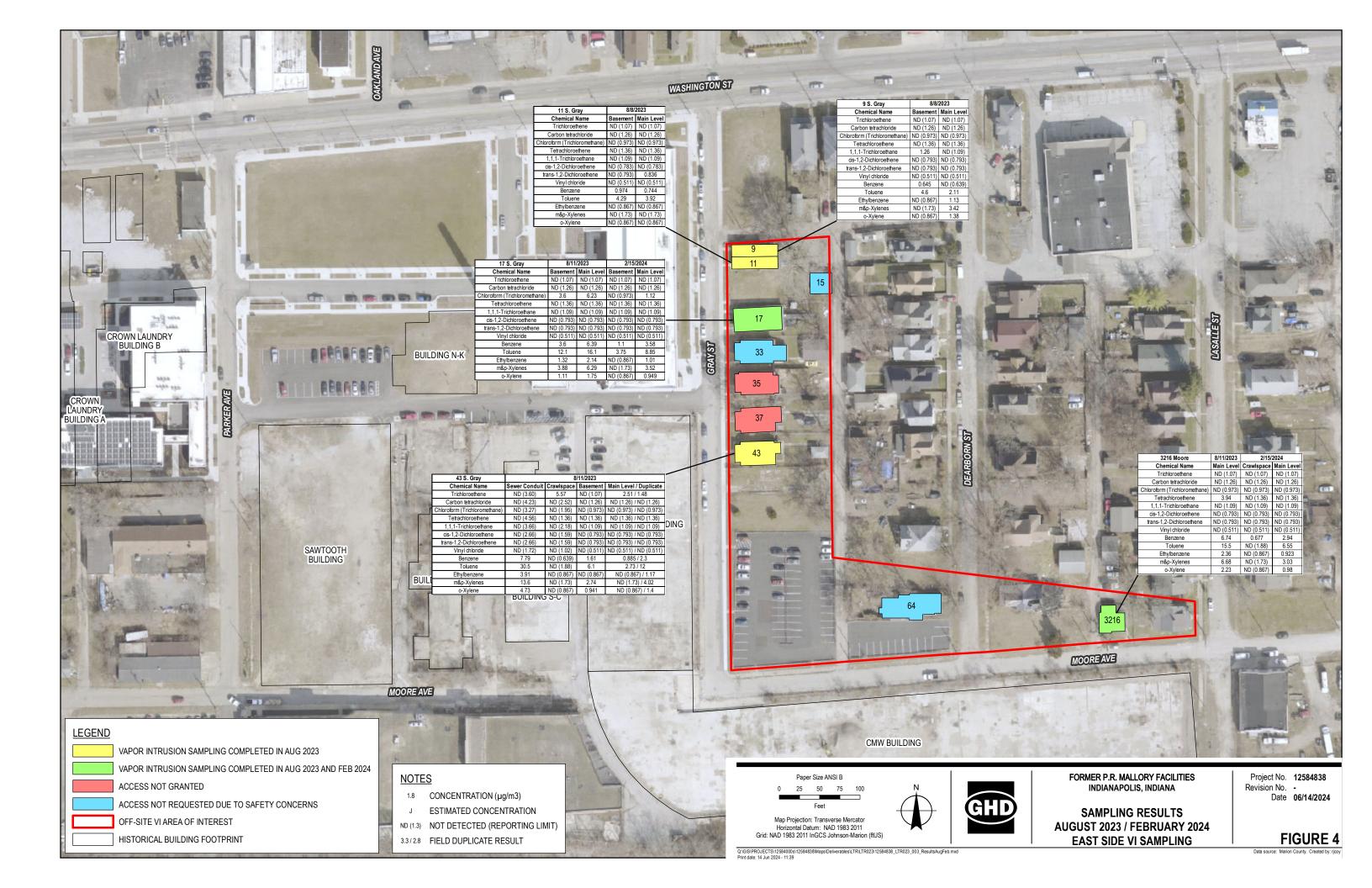
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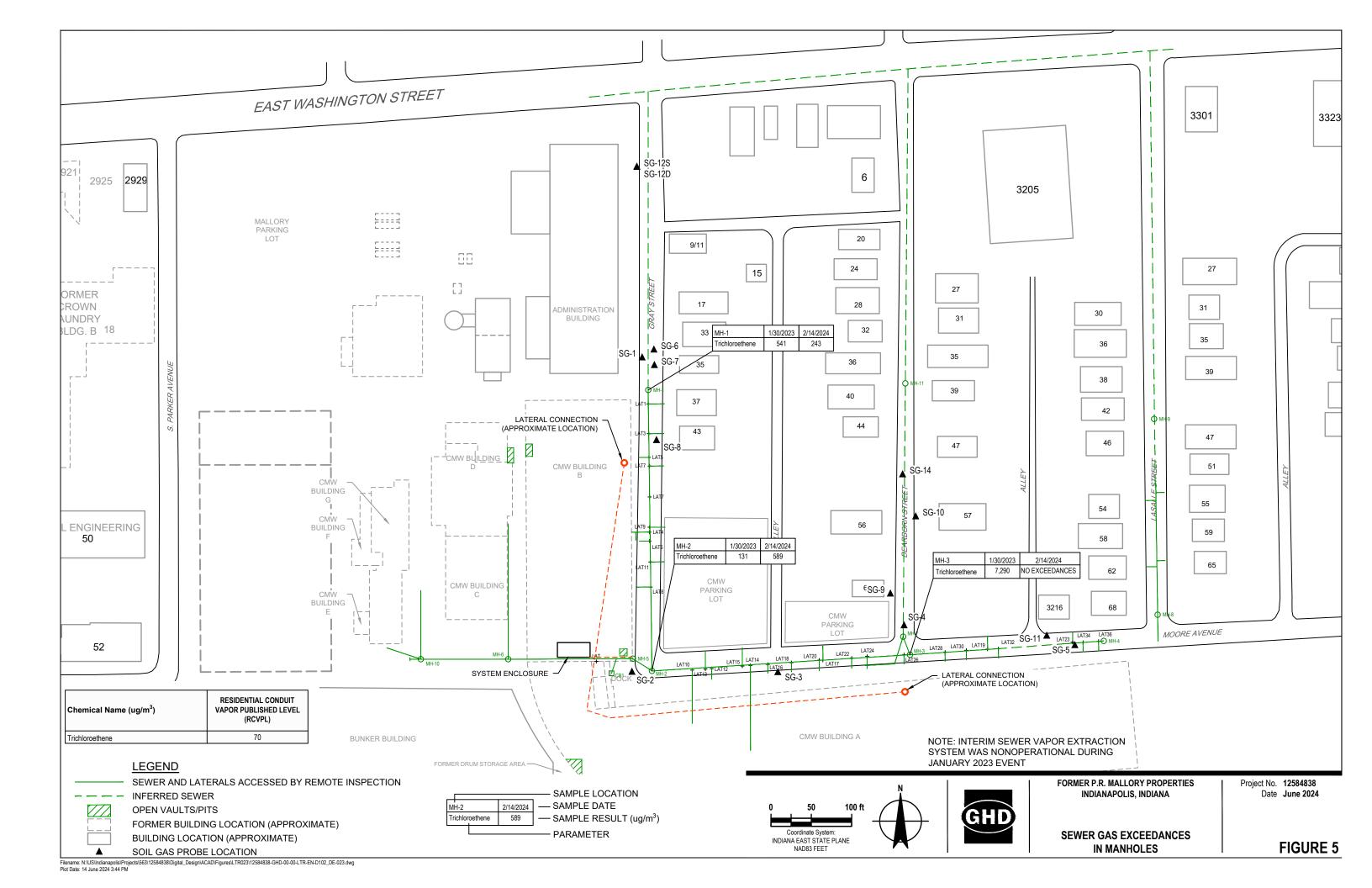
SITE LOCATION

FIGURE 1









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	ຣີ ສັ ສຸ	ភ ទ ន ន	ട് യ് S Chloroform (Trichloromethane)	ត S Tetrachloroethene ន	ຣີ 1,1,1-Trichloroethane ລ	n S S Cis-1,2-Dichloroethene	ក ង ង trans-1,2-Dichloroethene ស	m/8 W/Sinyl chloride	Benzene ng/m3	ug/m3	6 m/ Ethylbenzene	m&p-Xylenes	o-Xylene
	Residential Indoo	or Air Published Level		2	5	1	40	5000	40	40	2	4	5000	10	100	100
		rel (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		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 Mitiga		6/07/2021							ir 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 Mitiga	ation	4/20/2022					S	MA 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	by Trichloroethene	ຕ S Carbon tetrachloride ຜ	ြင်း S S Chloroform (Trichloromethane)	m Tetrachloroethene	g 1,1,1-Trichloroethane သ	ຕ ຜິ ຮ ວ	n S g trans-1,2-Dichloroethene ຜ	b W Vinyl chloride	Benzene Wag/B	ug/m3	b ay Ethylbenzene ଓ	m&p-Xylenes	o-Xylene
	Residential Indoor	Air Published Level		2	5	1	40	5000	40	40	2	4	5000	10	100	100
	Action Level	I (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 Mitigati	on	6/7/2021							Air Exchang	е					
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	n Salarichloroethene	ຕ S S Carbon tetrachloride ເ	င်္ဂ S Chloroform (Trichloromethane) မ	n S Tetrachloroethene	ດ ພ ນີ້ 1,1,1-Trichloroethane	n Salcis-1,2-Dichloroethene	ob trans-1,2-Dichloroethene	mg/myl chloride	ug/m3	ug/m3	Sthylbenzene	m&p-Xylenes	ng/m3
		Air Published Level		2	5	1	40	5000	40	40	2	4	5000	10	100	100
47.0.0		I (10X RIAPL)	4/0/0004	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 Mitigat		5/4/2021							Air Exchange						
17.C. Crov	Interim Mitigat IA-052121-TP-041		5/14/2021 5/21/2021	1.7	0.64 J	5.2	ND (4.4)		Four Sanuvox				10.0	1.2 J	3.7	1.6
17 S. Gray 17 S. Gray	IA-052121-TP-041	Basement Main level	5/21/2021	1.7	0.64 J 0.69 J		ND (1.1) ND (1.1)	ND (1.7) ND (1.7)	ND (1.2) ND (1.2)	ND (1.2) ND (1.2)	ND (0.40) ND (0.40)	4.3 6.3	16.6 17.8	1.2 J	5.4	1.6 1.9
17 S. Gray	IA-052121-TP-039	Main level Duplicate	5/21/2021	1.6 J	ND (4.3)	8.4 7.9	ND (1.1) ND (2.3)	ND (1.7)	ND (1.2) ND (2.7)	ND (1.2) ND (2.7)	ND (0.40)	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 (2.7)	ND (0.07)	2.0	6.4	1.8 J	3.4	1.5
17 S. Gray	IA-011322-TP-099	Main level	1/13/2022	76.9	3.1	2.7	1.6	3.3	2.8	ND (0.23)	ND (0.13)	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
17 C. City	Interim Mitigat		4/20/2022	01.0	2.0	2.0	0.010	2.0		` ,	or Extraction		7.0	1.10	2.0	1.00
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 Janury 2023 sampling event

TABLE 4 Former P.R. Mallory Facility

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

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Location	Sample ID	Sample Location	Date	mg/m3	Carbon tetrachloride	Chloroform (Trichloromethane	Tetrachloroethene	m/gn 1,1,1-Trichloroethane	m/gn cis-1,2-Dichloroethene	rrans-1,2-Dichloroethene ລ	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene
	Residential Conduit Vap	or Published Levels*		70	200	40	1000	200000	1000	1000	60	ug/m3 100	ug/m3 200000	400	ug/m3 3000	ug/m3 3000
	Residential Indoor A			2	5	1	40	5000	40	40	2	4	5000	10	100	100
	Action Level (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					Т	hree Sanuvo	x Units Place	d in Residen	се				
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							oke Test of Se						
	Interim Mitigation		10/12/2021				Rep	air of Sewer	Following Sr	noke Test An	d Performed	an Air Excha	inge			
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						ee Sanuvox L							
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						gulator Malfu		-		T	Ţ	T	1
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	mg/mg Trichloroethene	6 S S Sarbon tetrachloride	for the contect of the content of the contect of the content of the contect of the content of the contect of the content of the contect of th	m/gn Tetrachloroethene	l,1,1-Trichloroethane ຂ	b ש s cis-1,2-Dichloroethene	long frans-1,2-Dichloroethene ຂ	ng/myl chloride	Benzene ng/m3	euene Lolnene ug/m3	mg/Benzene	m&p-Xylenes	o-Xylene
	Residential Conduit Vap			70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
	Residential Indoor A			2	5	1	40	5000	40	40	2	4	5000	10	100	100
	Action Level (•		20	50	10	400	50000	400	400	20	40	50000	100	1000	1000
	Interim Mitigation		12/02/2021		ī	ı	<u> </u>	Ī	lı	nstalled iWav	'e		Ī	Ī	Ī	
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		1	1		ī	SMA Installe	d Sewer Vap	or Extraction		ı	ī	1	
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	b 3 S රූ	nd/bn 1,1,1-Trichloroethane ຣ	n S S cis-1,2-Dichloroethene လ	ရာ နာ krans-1,2-Dichloroethene လ	ng/myl chloride	Benzene ng/m3	Joinene Toluene ug/m3	Ethylbenzene	m&p-Xylenes	o-Xylene
	Residential Conduit Vap	or Published Levels*		70	200	40	1000	200000	1000	1000	60	100	200000	400	3000	3000
	Residential Indoor A	ir 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

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

[^]Interim SVE system was nonoperational during Janury 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	bm/Garbon tetrachloride	n S Chloroform (Trichloromethane) ຣ	for Tetrachloroethene	m m/1,1,1-Trichloroethane	for the cis-1,2-Dichloroethene	ຄ S trans-1,2-Dichloroethene ຜ	mg/myl chloride	Benzene Mg/m3	eueno L ug/m3	Ethylbenzene	m&p-Xylenes	o-Xylene ug/m3
		Air Published Level		2	5	1	40	5000	40	40	2	4	5000	10	100	100
		(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 Mitigati		6/2/2021							Air Exchanç						
	Interim Mitigati		6/4/2021							x Units Place						
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 (0.26)	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 (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 (1.09)	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 (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 (0.793)	,	6.74	15.5	2.36	6.68	2.23
3216 Moore	IA-081123-TP-013	Crawlspace	8/11/2023							function - No		orted				
3216 Moore	IA-02142024-AH-005	Crawlspace	2/15/2024	· · · · ·	` ,	. ,	, ,	` ′	` ,	ND (0.793)	,	0.677	ND (1.88)	ND (0.867)	ND (1.73)	ND (0.867)
02101110010																
3216 Moore	IA-02142024-AH-004	Main level	2/15/2024	` ′	, ,	, ,	` ,	` ,	` ,	ND (0.793) ND (0.793)	, ,	2.94	6.55	0.923	3.03	0.980

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 Janury 2023 sampling event

TABLE 6 Former P.R. Mallory Facility

Sewer Sampling Results
East Side Vapor Intrusion Sampling

Location	Sample ID	Sample Type	Date	mg/m Trichloroethene	6m Carbon tetrachloride	n Wa Chloroform (Trichloromethane)	6m Tetrachloroethene	n Wa ນີ້ 1,1,1,1-Trichloroethane	db m cis-1,2-Dichloroethene	n Sg trans-1,2-Dichloroethene ອ	mg/myl chloride	Benzene Benzene ug/m3	euene Loluene ug/m3	Ethylbenzene	m&p-Xylenes	o-Xylene
	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)
IVII 1-3	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 Installe	d Sewer Vap	or 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)		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			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 Janury 2023 sampling event

Attachments

Attachment A

Residential Inspections



Residential Inspection Form

Preparer's Name:	n Pranger			Date:	0/23	-
Preparer's Name:	Gay					
Part I - Occupants						
List of Current Occ	upants/Occupation (i	nclude	e child	en)		
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Te	inants					
Part II - Building Characte	eristics					
Building type: residentia other	multi-family residentia	al / offi	ice / str	ip mall / commerc	ial / industrial	1
Describe building:	plex			_ Year construct	ted:	
Number of floors at or above	e grade:					
Number of floors below grad partial crawlspace / sl		ıll baser	ment /	crawl space / part	ial basement	!
Depth of basement below g	rade surface:	1	ft	Basement size:		ft²

Describe further as approp		o / stone /other (specify		
				•
Foundation walls: poured of	concrete / cinder blocks	/ stone / bricks /other	(specify):	
Basement sump present? Ye		oump? Yes / No	Water in sump? Yes	
Basement floor drains present?	Yes / No	Water in drain?	Yes / No	
Significant cracks present in ba	sement floor? Yes / I	No Describe:		*
Significant cracks present in ba	sement walls? Yes / I			
Are the basement walls or floor	sealed with waterproof p			
Is there a whole house fan?	Yes / No			
Type of ground cover outside or	f building: grass / co	ncrete / asphalt /other	(specify)	
Sub-slab vapor/moisture barrier		No / Don't know		
Type of barrier:				
Type of heating system (circle a	ıll that apply):			
Type of heating system (circle a hot air circulation	all that apply): hot air radiation	wood stove	steam radiation	
			steam radiation	
hot air circulation	hot air radiation	kerosene heater		
hot air circulation	hot air radiation hot water radiation fireplace	kerosene heater other (specify):	electric baseboard	
hot air circulation heat pump central air conditioning	hot air radiation hot water radiation fireplace system (circle all that appl	kerosene heater other (specify):	electric baseboard	
hot air circulation heat pump central air conditioning Type of fuel utilized for heating s	hot air radiation hot water radiation fireplace system (circle all that appled oil / wood / coal / sol	kerosene heater other (specify):	electric baseboard	
hot air circulation heat pump central air conditioning Type of fuel utilized for heating s Natural gas / electric / fue	hot air radiation hot water radiation fireplace system (circle all that appled oil / wood / coal / sol	kerosene heater other (specify):	electric baseboard	
hot air circulation heat pump central air conditioning Type of fuel utilized for heating s Natural gas / electric / fue Type of fuel utilized for water he	hot air radiation hot water radiation fireplace system (circle all that apple) el oil / wood / coal / sol	kerosene heater other (specify): ly): lar / kerosene / other (s	electric baseboard	

11228727 Residential Inspection Form

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 floo	r of the building
,	

Provide Drawing of the main floor of the	e building
w	
-	

rovide Drawing o	of the second floor of the b	ouilding, if present		
				2
				as a
				¥

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.)	N2
Kerosene storage cans	No
Paints / thinners / strippers	Household
Cleaning solvents	Honsehold
Moth balls	NA
Insecticides	NA
New furniture / upholstery	NA
New carpeting / flooring	NA
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	Paints, Glucs
	Cluttered House
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:						
House not clean.						



Residential Inspection Form

Preparer's Name:						
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same T	renands					
Part II - Building Charact						-1.7
other	ade:			Year constru		
Depth of basement below	grade surface:		_ ft	Basement size	:	ft²

			one /other (specify):	
Describe further as appropriat	e: <u>S</u> <u>o</u> v	me (on)	Ineton	
Foundation walls: poured con-	crete / cinde	er blocks / sto	ne / bricks /other (s	specify):
Basement sump present? Yes	/ No	Sump pump?	Yes / No	Water in sump? Yes / No
Basement floor drains present?	Basement floor drains present? Yes / No		Water in drain?	Yes / No
Significant cracks present in base	ment floor?	Yes / No	Describe:	
Significant cracks present in base	ment walls?	Yes / No	Describe:	
Are the basement walls or floor se	ealed with wat	erproof paint or	epoxy coatings?	Yes / No
Is there a whole house fan?	Yes / No			
Type of ground cover outside of b	uilding: gra	ass / concrete	e / asphalt /other (s	specify)
Sub-slab vapor/moisture barrier in	place?	Yes / No /	Don't know	
Type of barrier:		F		
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	ntral air conditioning fireplace oth			
Type of fuel utilized for heating sy	stem (circle a	ll that apply):		
Natural gas / electric / fuel	oil / wood /	coal / solar /	kerosene / other (s	specify):
Type of fuel utilized for water hear	ter:			
Natural gas / electric				
Backdrafting test conducted on no	on-electric ap _l	oliances: Ye	s / No / Not Applic	able
List appliances tested and	d observation	s:		and the second s

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.)

rovide Drawing of the lowest floor of the building					
,					

rovide Drawing of the main floor of the building					

rovide Drawing of the second floor of t	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.)	$N_{\mathfrak{d}}$
Kerosene storage cans	\mathcal{N} s
Paints / thinners / strippers	Huscheld cleaners
Cleaning solvents	Household cleanors
Moth balls	
Insecticides	
New furniture / upholstery	
New carpeting / flooring	
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	Paints, Glues, gunckaning Kit
	(Intered House
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: Candles house not very clean



Preparer's Name:	In lawy	·········	_	Date: 8/7	2/23	
Site Address//	, o.a.y					
Part I - Occupants						
List of Current Occu	upants/Occupation (i	nclude	e childr	en)		
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Vacco	ent					
Part II - Building Charact	eristics					
	ial / multi-family resident	tial / o	ffice / s	trip mall / commer	cial / industria	al/
other	/					
Describe building:	plex			Year constru	cted:	
Number of floors at or abo	ve grade:				and the second of the second	
Number of floors below graphical crawlspace /		full bas	ement /	crawl space pa	irtial basement	
Depth of basement below	grade surface:		_ ft	Basement size	:	ft²

			ne /other (specify):	
Describe further as appropriate	e: Asb	roles		
Foundation walls: poured cond	crete / cinde	er blocks / sto	ne / bricks /other (specify):
Basement sump present? Yes	/ No	Sump pump?	Yes / No	Water in sump? Yes / No
Basement floor drains present?	Yes / N	lo	Water in drain?	Yes / No
Significant cracks present in base	ment floor?	Yes / No	Describe:	
Significant cracks present in base	ment walls?	Yes / No	Describe:	
Are the basement walls or floor se	ealed with wat	terproof paint o	epoxy coatings?	Yes / No
Is there a whole house fan?	Yes / No			
Type of ground cover outside of b	uilding: gr	ass / concrete	e / 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 rad	iation	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 sy	stem (circle a	all that apply):		
Natural gas / electric / fuel	oil / wood /	coal / solar /	kerosene / other (s	specify):
Type of fuel utilized for water hear	ter:			
Natural gas / electric				
Backdrafting test conducted on no	on-electric ap	pliances: Ye	s No/ Not Applic	eable
List appliances tested and	d observation	s:		

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.)

rovide Drawing of the lowest floor	of the building		

main floor of the			

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.)	S CM
Kerosene storage cans	No
Paints / thinners / strippers	Scatteral
Cleaning solvents	bleach
Moth balls	No
Insecticides	WS
New furniture / upholstery	No
New carpeting / flooring	N_{o}
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	House now vocant. First he & cleans materials Still in home, Home looks consuched.

Part IV - Miscellaneous Items

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

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 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 WA	
If yes, what types of solvents are used?	
If yes, are their clothes washed at work? Yes / No W	
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: Sever in basement has open cap.	



Preparer's Name: The Pranges Date: 1/30/23 Site Address: 17 S. Gray									
Site Address: 17	S. Gny					Marketon de Alexandro			
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 R	es: dents								
Part II - Building Chara	ecteristics								
Building type: eside other	ential / multi-family resident	tial / o	ffice / s	trip mall / commer	cial / industria	al /			
Describe building: Year constructed:									
Number of floors at or a	bove grade:								
Number of floors below partial crawlspace /	grade: (full bas	ement /	crawl space / pa	rtial basement	1			
Depth of basement below grade surface: ft Basement size: ft²									

	crete / soil / slab / sto						
Describe further as appropriate:	Some const	nella					
Foundation walls: poured concre	ete / cinder blocks / sto	ne / bricks /other (s	specify):				
Basement sump present? Yes / I	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 baseme	ent floor? Yes / No	Describe:					
Significant cracks present in baseme	ent walls? Yes / No	Describe:					
Are the basement walls or floor seal	led with waterproof paint o	r epoxy coatings?	Yes / No				
Is there a whole house fan?	Yes / No						
Type of ground cover outside of buil	Iding: grass / concrete	e / asphalt /other (specify)				
Sub-slab vapor/moisture barrier in p	place? Yes / No /	Don't know					
Type of barrier:							
Type of heating system (circle all the	at apply):						
hot air circulation	hot air radiation	wood stove	steam radiation				
heat pump	hot water radiation		electric baseboard				
central air conditioning fireplace other (specify):							
Type of fuel utilized for heating syst	em (circle all that apply):						
Natural gas / electric / fuel oil	I / wood / coal / solar /	kerosene / other (s	specify):				
Type of fuel utilized for water heate	r:						
Natural gas / electric							
Backdrafting test conducted on non	-electric appliances: Ye	s / No / Not Applic	able				
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.)

e main floor of the building

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	$N_{\mathfrak{d}}$
Gas-powered equipment (mowers, etc.)	N_{o}
Kerosene storage cans	100
Paints / thinners / strippers	Palits + Thiness in losement
Cleaning solvents	Palits + Thiness in lasement Normal House hold
Moth balls	No
Insecticides	NO
New furniture / upholstery	No
New carpeting / flooring	$N_{\rm S}$
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 of Min basement. Someway units add.



Preparer's Name:	in Pranger			Date: 8/10	0/23	
Preparer's Name:	. Gray					
Part I - Occupants						
List of Current Occu	upants/Occupation (i	nclud	e childı	ren)		
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Resid	lents					
Part II - Building Charact	eristics					
Building type: resident	ial / multi-family resident	tial / o	ffice / s	trip mall / commer	cial / industria	al /
other						
Describe building:				Year constru	cted:	10
Number of floors at or abo	ve grade:					
Number of floors below graph partial crawlspace / s		full bas	ement /	crawl space / pa	rtial basement	: 1
Depth of basement below	grade surface:		ft	Basement size	:	ft²

Basement floor construction: co	oncrete / so	il / slab / sto	ne /other (specify):	
Describe further as appropriate	e: <u>San</u>	ne Cons	Inction	
		and the second s		
Foundation walls: poured cond	crete / cinde	er blocks / sto	ne / bricks /other (s	specify):
Basement sump present? Yes	′ No	Sump pump?	Yes / No	Water in sump? Yes / No
Basement floor drains present?	Yes / N	lo	Water in drain?	Yes / No
Significant cracks present in base	ment floor?	Yes / No	Describe:	
Significant cracks present in base	ment walls?	Yes / No	Describe:	
Are the basement walls or floor se	aled with wat	terproof paint or	epoxy coatings?	Yes / No
Is there a whole house fan?	Yes / No			
Type of ground cover outside of be	uilding: gr	ass / concrete	/ asphalt /other (s	specify)
Sub-slab vapor/moisture barrier in	place?	Yes / No / L	Don't know	
Type of barrier:				
Type of heating system (circle all f	that apply):			
hot air circulation	hot air rad	iation	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 sy	stem (circle a	all that apply):		
Natural gas / electric / fuel d	oil / wood /	coal / solar /	kerosene / other (s	pecify):
Type of fuel utilized for water heat	er:			
Natural gas / electric				
Backdrafting test conducted on no	n-electric ap	pliances: Yes	s / No / Not Applic	able
List appliances tested and	d observation	s:		

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.)

rovide Drawing of the lowest floor of the	ne building	
	-	
,		
, @		

Provide Drawing of the main floor of the	e building	

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	N_0
Paints / thinners / strippers	Paints & Thinner in basement
Cleaning solvents	Household
Moth balls	No
Insecticides	Raid
New furniture / upholstery	No
New carpeting / flooring	W 8
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke?

ves / 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: Pelats + Thinners still in becoment. Samues and instrumenty.



Part I - Occupants	7th Panger		Date: _//3	0/23	
List of Current	Occupants/Occupation (in	nclude childr	en)		
Name	Address: (Lot # or apt. #)	Age Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same T	renaits				
Part II - Building Cl	haracteristics				
Building type: re	esidential / multi-family residen	tial / office / s	trip mall / commer	cial / industri	al /
of	ther				
Describe building:			Year constru	cted:	
	or above grade:/			The second secon	
partial crawlspa	low grade:(ce / slab on grade) below grade surface:		crawl space / pa	Andrew Control of the	
Depth of basement	DEIOW GLAVE SULIAGE.	16	Daoonion oize		

Basement floor construction: co	ncrete / soil / slab	/ stone /other (specify):	
Describe further as appropriate	: Same (on Structure W	
Foundation walls: poured cond	rete / cinder blocks	/ stone / bricks /other	(specify):
Basement sump present? Yes /	No Sump p	oump? Yes / No	Water in sump? Yes / No
Basement floor drains present?	Yes / No	Water in drain?	Yes / No
Significant cracks present in baser	ment floor? Yes /	No Describe:	
Significant cracks present in baser	ment walls? Yes /	No Describe:	
Are the basement walls or floor se	aled with waterproof p	paint or epoxy coatings?	Yes / No
Is there a whole house fan?	Yes / No		
Type of ground cover outside of bu	uilding: grass / co	oncrete / asphalt /other	(specify)
Sub-slab vapor/moisture barrier in	place? Yes /	No / Don't know	
Type of barrier:			
Type of heating system (circle all t	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 sy	stem (circle all that ap	oply): No AC	
Natural gas) electric / fuel			(specify):
Type of fuel utilized for water hear	ter:		
Natural gas / electric			
Backdrafting test conducted on no	on-electric appliances:	Yes / No / Not Appl	icable
List appliances tested and	d 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.)

rovide Drawing of the m	nain floor of the buildin	ng		
				·····

	ling, 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.)	Lawn Mower in Sout Weed nature near basement steps
Kerosene storage cans	$N_{\mathcal{O}}$
Paints / thinners / strippers	New Basement Stepr
Cleaning solvents	Wo
Moth balls	Paid or similar
Insecticides	Rail 65 similar
New furniture / upholstery	No
New carpeting / flooring	Po
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
	Dil + labelouts new bosement step-
Other (specify):	

Part IV - Miscellaneous Items

Do any of the occupants of the building smoke? Yes / Wo

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:	2000						



Preparer's Name:	- Pounger			Date: 3/10	123	
Preparer's Name:	S Gray					
Part I - Occupants	9					
List of Current Occu	pants/Occupation (i	nclude	e childr	en)		
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Same Tena	nts					
			,			
Part II - Building Characte	eristics					
Building type: residention other	al) multi-family resident	ial / of	ffice / st	trip mall / commerc	cial / industria	al /
Describe building:				Year construc	cted:	
Number of floors at or above	ve grade:					
Number of floors below gra		full bas	ement /	crawl space / par	rtial basement	
Depth of basement below of	grade surface:		ft	Basement size:		ft²

			one /other (specify):	
Describe further as appropria	te: <u>San</u>	re build!	ny construid	lon
		~**		
Foundation walls: poured cor	ncrete / cinde	er blocks / sto	ne / bricks /other (s	specify):
Basement sump present? Yes	/ No	Sump pump?	Yes / No	Water in sump? Yes / No
Basement floor drains present?	Yes / N	lo	Water in drain?	Yes / No
Significant cracks present in base	ement floor?	Yes / No	Describe:	
Significant cracks present in base	ement walls?	Yes / No	Describe:	
Are the basement walls or floor s	ealed with wat	terproof paint o	epoxy coatings?	Yes / No
Is there a whole house fan?	Yes / No			
Type of ground cover outside of I	ouilding: gr	ass / concrete	e / asphalt /other (s	specify)
Sub-slab vapor/moisture barrier i	n place?	Yes / No /	Don't know	
Type of barrier:				
Type of heating system (circle all	that apply):			
hot air circulation	hot air rad	iation	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 s	ystem (circle a	ll that apply):	No AC	
Natural gas electric / fuel	oil / wood /	coal / solar /	kerosene / other (s	pecify):
Type of fuel utilized for water hea	ater:			
Natural gas / electric				
Backdrafting test conducted on n	on-electric ap	pliances: Ye	s / No / Not Applic	able
List appliances tested ar	nd observation	s:		

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.)

3

Provide Drawing of the I	owest floor of the	building				
			- Constitution of the Cons			
1						
				8 =		
L					 	

Provide Drawing of the	main floor of the	building		
		1		
v				
L				

Provide Drawing of the	second floor of	the building, if p	resent		8	
		and the second s		 		

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.)	Lown mower front are a wood Entr - Steps to basement
Kerosene storage cans	No
Paints / thinners / strippers	New Steps to basement
Cleaning solvents	tifehen & bath
Moth balls	$N_{\mathcal{O}}$
Insecticides	Raid type
New furniture / upholstery	No
New carpeting / flooring	\mathcal{U}_{δ}
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
	Oil + labricants near steps to
Other (specify):	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: Winlows open a some avear lue to is MAC.							



Preparer's Name:	n Prange	·	23	Date://3	0/23	
Site Address: 32/4	Moore					
Part I - Occupants						
List of Current Occu	ıpants/Occupation (i	includ	e child	ren)		
Name	Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)
Danny Clarke	37 ile Moore		M	Unemplaya		
Danny Clarke Abonda Clarke	3716 Moor		F	unemployed)	
Part II - Building Characte	eristics					
Building type: residentia	multi-family resident	tial / of	fice / st	trip mall / commerc	ial / industria	1 /
other						
Describe building:				Year construct	ted:	
Number of floors at or abov	e grade:					
Number of floors below gra		full base	ement /	crawl space y part	ial basement	1
Depth of basement below g	rade surface:		ft	Basement size:		ft²

	concrete / soil / slab /	2 20	
Describe further as appropri	ate: Same como	, Luchba	
Foundation walls: poured co	ncrete / cinder blocks / s	tone / bricks /other ((specify):
Basement sump present? Yes		? Yes / No	
Basement floor drains present?	Yes / No	Water in drain?	Yes / No
Significant cracks present in base	ement floor? Yes / No	Describe:	
Significant cracks present in base	ement walls? Yes / No		
Are the basement walls or floor s	ealed with waterproof paint		
Is there a whole house fan?	Yes / No		
Type of ground cover outside of k	ouilding: grass / concre	te / asphalt /other (s	specify)
Sub-slab vapor/moisture barrier i			
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 sy	stem (circle all that apply):		
Natural gas / electric / fuel	oil / wood / coal / solar /	kerosene / other (sp	pecify):
Type of fuel utilized for water heat	er:		
Natural gas / electric			
Backdrafting test conducted on no	n-electric appliances: Ye	s / No / Not Applica	able
List appliances tested and	l observations:	***	

Provide Drawing of the main f	loor of the building		

rovide 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.)	200
Kerosene storage cans	No
Paints / thinners / strippers	Household
Cleaning solvents	Household
Moth balls	No
Insecticides	No
New furniture / upholstery	$N_{\mathcal{O}}$
New carpeting / flooring	No
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Carlles, hand soaps, sprans

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?
If yes, when? and where? Other Observations:

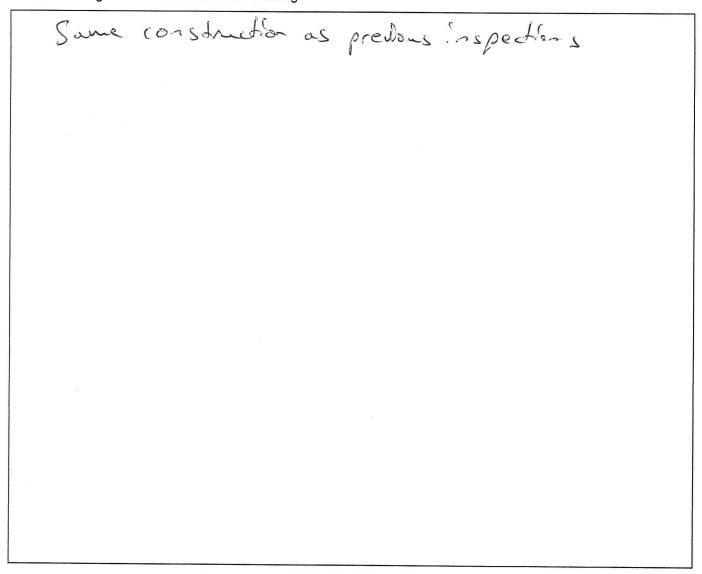


Preparer's Name: Tim Ranges					Date: 8/10/23		
6 Moore	Ava	? .	· · · · · · · · · · · · · · · · · · ·				
pants/Occupation (i	includ	e child	ren)				
Address: (Lot # or apt. #)	Age	Sex (M/F)	Occupation	Basement Occupancy (Yes/No)	Attic Occupancy (Yes/No)		
3216 Moore 3216 Moore		MF	Unemployed Unemployed				
e grade: de: (fab on grade)		ement /	Year construct	ted:			
	ipants/Occupation (i Address: (Lot # or apt. #) 3216 Moore 3216 Moore 3216 Moore 3216 Moore	ipants/Occupation (include Address: (Lot # or apt. #) 3 2 16 Mesre 3 2 16 Mesre all / multi-family residential / offered about grade)	Ipants/Occupation (include child Address: Age Sex (M/F) 3216 Moore M 3216 Moore F 3216 Moore F 3216 Moore F 3216 Moore F (Include child Address: Age Sex (M/F) Age Sex (M/F) Age Sex (M/F)	pants/Occupation (include children) Address: (Lot # or apt. #) Age Sex Occupation (M/F) 3 2 16 Mos re 3 2 16 Mos re 4 Unemployed Wear construction The grade: Geral Grade (full basement / Grawl space) The part of the second of the part of the space of the second	Address: (Lot # or apt #) Address: (Lot # or apt #) Age Sex Occupation Occupancy (Yes/No) 3216 Moore 3216 Moore 4 Unemployed Wistics In multi-family residential / office / strip mall / commercial / industrial Year constructed: ge grade: de: (full basement / crawl space) partial basement ab on grade)		

Describe further as appropr	riate: <u>Sma</u>	11 Entra	uce to crav	ol on east pile
home.				
	an early and a second s			
				(specify):
Basement sump present? Yes	s / (No)	Sump pump?	Yes / No	Water in sump? Yes
Basement floor drains present?	Yes / N	lo	Water in drain?	Yes / No
Significant cracks present in bas	sement floor?	Yes / No	Describe:	
Significant cracks present in bas	sement walls?	Yes / No	Describe:	
			NAMES AND DESCRIPTION OF THE PERSON OF THE P	
Are the basement walls or floor	sealed with wat	erproof paint or	epoxy coatings?	Yes / No/
	. \	erproof paint or	epoxy coatings?	Yes / No/) /2
Is there a whole house fan?	Yes (No)		V.
Is there a whole house fan? Type of ground cover outside of	Yes (No	ass / concrete	/ asphalt /other (s	V.
Is there a whole house fan? Type of ground cover outside of	Yes (No	ass / concrete Yes / No / D	/ asphalt /other (s	V.
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier:	Yes (No) building: gra in place?	ass / concrete Yes / No / D	/ asphalt /other (s	V.
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier:	Yes (No) building: gra in place?	ass / concrete Yes / Ño › E	/ asphalt /other (s	V.
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier: Type of heating system (circle a	Yes No building: gra in place? Il that apply):	ass / concrete Yes / No / D	/ asphalt /other (s Don't know	specify)
Type of heating system (circle a	Yes No building: gra in place? Il that apply): hot air radia	ass / concrete Yes / No / D ation adiation	/ asphalt /other (som it is a specific for the condition of the condition	specify)steam radiation
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier: Type of heating system (circle a hot air circulation heat pump	Yes No building: gra in place? Il that apply): hot air radia hot water ra fireplace	ass / concrete Yes / No D ation adiation	/ asphalt /other (som it is a specific for the condition of the condition	specify) steam radiation electric baseboard
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier: Type of heating system (circle a hot air circulation heat pump central air conditioning	Yes No building: gra in place? Il that apply): hot air radia hot water ra fireplace system (circle al	ass / concrete Yes / No E ation adiation I that apply):	/ asphalt /other (son't know) wood stove kerosene heater other (specify):	specify) steam radiation electric baseboard
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier: Type of heating system (circle a hot air circulation heat pump central air conditioning	Yes No Fibuilding: gra in place? Il that apply): hot air radia hot water ra fireplace system (circle al	ass / concrete Yes / No E ation adiation I that apply):	/ asphalt /other (son't know) wood stove kerosene heater other (specify):	specify) steam radiation electric baseboard
Is there a whole house fan? Type of ground cover outside of Sub-slab vapor/moisture barrier Type of barrier: Type of heating system (circle a hot air circulation heat pump central air conditioning) Type of fuel utilized for heating so Natural gas 1 electric 1 fuel	Yes No Fibuilding: gra in place? Il that apply): hot air radia hot water ra fireplace system (circle al	ass / concrete Yes / No E ation adiation I that apply):	/ asphalt /other (son't know) wood stove kerosene heater other (specify):	specify) steam radiation electric baseboard

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



rovide Drawing of the main floor of the building				
			77 - 2000 (2000)	
		T - 000000		

rovide 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 clearers
Cleaning solvents	Household cleaners
Moth balls	$\mathcal{N}_{\mathcal{S}}$
Insecticides	No
New furniture / upholstery	No.
New carpeting / flooring	No, Swood Sloorly replaced only last year
Hobbies - glues, paints, lacquers, photographic darkroom chemicals, etc.	No
Other (specify):	Candles, Elmers Gluz, Hund Soups Savitizh sprass,

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 / Vo
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 That

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





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

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

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

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 DW Certification #: 9952 C Wisconsin Certification #: 999407970

West Virginia DEP Certification #: 382

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

*Please Note: Applicable air certifications are denoted with

an asterisk (*).





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



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



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.



ANALYTICAL RESULTS

Project: 12584838-03 Pace Project No.: 10641966

Date: 02/20/2023 01:52 PM

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.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Anal	ytical Service	s - Minneapo	lis					
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		
Benzyl chloride	<1.1	ug/m3	3.8	1.1	1.46		02/14/23 19:43		
Bromodichloromethane	<0.47	ug/m3	2.0	0.47	1.46		02/14/23 19:43		
Bromoform	<1.1	ug/m3	7.7	1.1	1.46		02/14/23 19:43		
Bromomethane	<0.43	ug/m3	1.2	0.43	1.46		02/14/23 19:43		
1,3-Butadiene	<0.16	ug/m3	0.66	0.16	1.46		02/14/23 19:43		
2-Butanone (MEK)	3.5J	ug/m3	4.4	0.55	1.46		02/14/23 19:43		
Carbon disulfide	0.43J	ug/m3	0.92	0.34	1.46		02/14/23 19:43		
Carbon tetrachloride	<0.61	ug/m3	4.7	0.61	1.46		02/14/23 19:43		
Chlorobenzene	<0.20	ug/m3	1.4	0.20	1.46		02/14/23 19:43		
Chloroethane	<0.30	ug/m3	0.78	0.20	1.46		02/14/23 19:43		
Chloroform	0.20J	ug/m3	0.70	0.30	1.46		02/14/23 19:43		
Chloromethane	3.8	ug/m3	0.72	0.20	1.46		02/14/23 19:43		
Cyclohexane	<0.20	ug/m3	2.6	0.13	1.46		02/14/23 19:43		
Dibromochloromethane	<0.53	•	2.5	0.20	1.46		02/14/23 19:43		
		ug/m3					02/14/23 19:43		
,2-Dibromoethane (EDB)	<0.45	ug/m3	1.1	0.45	1.46		02/14/23 19:43		
,2-Dichlorobenzene	<1.3	ug/m3	4.5	1.3	1.46				
,3-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:43		
,4-Dichlorobenzene	<1.2	ug/m3	4.5	1.2	1.46		02/14/23 19:43		
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.75	1.46		02/14/23 19:43		
,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.46		02/14/23 19:43		
,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 19:43		
,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.46		02/14/23 19:43		
cis-1,2-Dichloroethene	0.47J	ug/m3	1.2	0.31	1.46		02/14/23 19:43		
rans-1,2-Dichloroethene	<0.61	ug/m3	1.2	0.61	1.46		02/14/23 19:43		
,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.46		02/14/23 19:43		
cis-1,3-Dichloropropene	<0.95	ug/m3	3.4	0.95	1.46		02/14/23 19:43		
rans-1,3-Dichloropropene	<1.1	ug/m3	3.4	1.1	1.46		02/14/23 19:43		
Dichlorotetrafluoroethane	<0.35	ug/m3	2.1	0.35	1.46		02/14/23 19:43		
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		
Ethylbenzene	1.0J	ug/m3	1.3	0.26	1.46		02/14/23 19:43		
I-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.46		02/14/23 19:43	622-96-8	
-Heptane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 19:43	142-82-5	
lexachloro-1,3-butadiene	<2.6	ug/m3	7.9	2.6	1.46		02/14/23 19:43	87-68-3	
-Hexane	0.68J	ug/m3	1.0	0.34	1.46		02/14/23 19:43	110-54-3	
?-Hexanone	<1.0	ug/m3	6.1	1.0	1.46		02/14/23 19:43	591-78-6	
sopropylbenzene (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	
I-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		
Propylene	9.0	ug/m3	1.3	0.52	1.46		02/14/23 19:43		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: 12584838-03 Pace Project No.: 10641966

Date: 02/20/2023 01:52 PM

Sample: IA-013123-TP-009	Lab ID: 10641966001 Collected: 01/31/23 12:41 Received: 02/06/23 12:37						2/06/23 12:37 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
		lytical Services		lis					
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		
Tetrachloroethene	<0.36	ug/m3	1.0	0.36	1.46		02/14/23 19:43		
Tetrahydrofuran	<0.27	ug/m3	0.88	0.27	1.46		02/14/23 19:43		
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		
1,1,1-Trichloroethane	0.28J	ug/m3	1.6	0.26	1.46		02/14/23 19:43		
1,1,2-Trichloroethane	<0.38	ug/m3	0.81	0.38	1.46		02/14/23 19:43		
Trichloroethene	<0.35	ug/m3	0.80	0.35	1.46		02/14/23 19:43		
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.29	1.46		02/14/23 19:43		
1,1,2-Trichlorotrifluoroethane	0.43J	ug/m3	2.3	0.33	1.46		02/14/23 19:43		
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		
Vinyl acetate	<0.26	ug/m3	1.0	0.26	1.46		02/14/23 19:43		
Vinyl chloride	<0.14	ug/m3	0.38	0.14	1.46		02/14/23 19:43		
m&p-Xylene	3.1	ug/m3	2.6	0.72	1.46		02/14/23 19:43		
o-Xylene	0.86J	ug/m3	1.3	0.26	1.46		02/14/23 19:43		
Sample: IA-013123-TP-010	Lab ID:	10641966002	Collected	d: 01/31/2	3 12:42	Received: 02	2/06/23 12:37 M	atrix: Air	
Sample: IA-013123-TP-010 Parameters	Lab ID:	10641966002 Units	Collected PQL	d: 01/31/2	3 12:42 	Received: 02 Prepared	2/06/23 12:37 Ma	CAS No.	Qual
Parameters	Results		PQL _						Qual
Parameters	Results Analytical	Units	PQL	MDL					Qual
Parameters TO15 MSV AIR	Results Analytical Pace Ana	Units Method: TO-15 lytical Services	PQL -	MDL	DF		Analyzed	CAS No.	Qual
Parameters TO15 MSV AIR Acetone	Results Analytical Pace Ana 10.6	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 8.7	MDL lis	DF 1.44		Analyzed 02/14/23 20:18	CAS No.	Qual
Parameters TO15 MSV AIR Acetone Benzene	Results Analytical Pace Ana	Units Method: TO-15 lytical Services - ug/m3 ug/m3	PQL - Minneapo 8.7 0.47	MDL	DF		Analyzed 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride	Results Analytical Pace Ana 10.6 0.58	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7	MDL dis 3.2 0.16 1.1	DF 1.44 1.44		Analyzed 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Results Analytical Pace Ana 10.6 0.58 <1.1 <0.46	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0	MDL lis 3.2 0.16 1.1 0.46	1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6	MDL dis 3.2 0.16 1.1 0.46 1.1	1.44 1.44 1.44 1.44		02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Results Analytical Pace Ana 10.6 0.58 <1.1 <0.46	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0	MDL lis 3.2 0.16 1.1 0.46	1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1 0.65	MDL dis 3.2 0.16 1.1 0.46 1.1 0.43 0.16	1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1	MDL dis 3.2 0.16 1.1 0.46 1.1 0.43	1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54	1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Results Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J <0.20	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J <0.20 <0.30 <0.19	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Results Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J <0.20 <0.30 <0.19 0.93	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19 0.13	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane	Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J <0.20 <0.30 <0.19	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71 0.60	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB)	Results Analytical Pace Ana 10.6 0.58 <1.1 <0.46 <1.1 <0.43 <0.16 0.98J <0.34 2.4J <0.20 <0.30 <0.19 0.93 0.35J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71 0.60 2.5	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19 0.13 0.19	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18 02/14/23 20:18	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12584838-03 Pace Project No.: 10641966

Date: 02/20/2023 01:52 PM

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 Anal	ytical Service	s - Minneapo	olis					
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		
Dichlorodifluoromethane	2.4	ug/m3	1.5	0.74	1.44		02/14/23 20:18		
1.1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.44		02/14/23 20:18		
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.44		02/14/23 20:18		
1.1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		02/14/23 20:18		
cis-1,2-Dichloroethene	<0.31	ug/m3	1.2	0.31	1.44		02/14/23 20:18		
trans-1,2-Dichloroethene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 20:18		
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.44		02/14/23 20:18		
cis-1,3-Dichloropropene	<0.94	ug/m3	3.3	0.94	1.44		02/14/23 20:18		
trans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.44		02/14/23 20:18		
Dichlorotetrafluoroethane	<0.35	ug/m3	2.0	0.35	1.44		02/14/23 20:18		
Ethanol	32.4	ug/m3	2.8	1.3	1.44		02/14/23 20:18		
Ethyl acetate	2.6	ug/m3	1.1	0.23	1.44		02/14/23 20:18		
Ethylbenzene	0.29J	ug/m3	1.3	0.26	1.44		02/14/23 20:18		
•	<0.59	ug/m3	3.6	0.20	1.44		02/14/23 20:18		
4-Ethyltoluene	0.74J	ug/m3	1.2	0.59	1.44		02/14/23 20:18		
n-Heptane Hexachloro-1,3-butadiene	0.745 <2.5	· ·	7.8	2.5	1.44		02/14/23 20:18		
·		ug/m3			1.44				
n-Hexane	0.77J	ug/m3	1.0	0.33			02/14/23 20:18		
2-Hexanone	<0.99	ug/m3	6.0	0.99	1.44		02/14/23 20:18		
Isopropylbenzene (Cumene)	<0.84	ug/m3	3.6	0.84	1.44		02/14/23 20:18		
Methylene Chloride	1.1J	ug/m3	5.1	0.18	1.44		02/14/23 20:18		
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.0	0.77	1.44		02/14/23 20:18		
Methyl-tert-butyl ether	<0.36	ug/m3	5.3	0.36	1.44		02/14/23 20:18		
Naphthalene	<3.0	ug/m3	3.8	3.0	1.44		02/14/23 20:18		
2-Propanol	5.7	ug/m3	3.6	1.4	1.44		02/14/23 20:18		
Propylene	<0.51	ug/m3	1.3	0.51	1.44		02/14/23 20:18		
Styrene	<0.60	ug/m3	1.2	0.60	1.44		02/14/23 20:18		
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	2.0	0.41	1.44		02/14/23 20:18		
Tetrachloroethene	<0.36	ug/m3	0.99	0.36	1.44		02/14/23 20:18		
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		
1,2,4-Trichlorobenzene	<8.3	ug/m3	10.9	8.3	1.44		02/14/23 20:18		
1,1,1-Trichloroethane	<0.26	ug/m3	1.6	0.26	1.44		02/14/23 20:18		
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	



QUALITY CONTROL DATA

Project: 12584838-03 Pace Project No.: 10641966

Date: 02/20/2023 01:52 PM

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 Result Limit MDL Analyzed Qualifiers 1.1,1-Trichloroethane ug/m3 <0.29 1.4 0.29 0.214/23 10:28 1.1,2-Trichloroethane ug/m3 <0.29 1.4 0.29 0.214/23 10:28 1.1,2-Trichloroethane ug/m3 <0.25 0.56 0.26 02/14/23 10:28 1.1-Dichloroethane ug/m3 <0.11 0.82 0.11 02/14/23 10:28 1.1-Dichloroethane ug/m3 <0.16 0.81 0.16 02/14/23 10:28 1.2-H-Trichlorobenzene ug/m3 <0.57 7.5 5.7 02/14/23 10:28 1.2-H-Trichlorobenzene ug/m3 <0.35 1.0 0.35 02/14/23 10:28 1.2-Dichlorobenzene ug/m3 <0.36 3.1 0.68 0.31 0.08 02/14/23 10:28 1.2-Dichlorobenzene ug/m3 <0.86 3.1 0.06 02/14/23 10:28 1.2-Dichlorobenzene ug/m3 <0.13 0.82 0.13 0.02 02/14/23 10:28	Davanastan	l laita	Blank	Reporting	MDI	A a l a -l	O !: fi
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 0.214/23 10:28 1,1-2-Trichloroethane ug/m3 <0.23 1.6 0.23 0.214/23 10:28 1,1-Dichloroethane ug/m3 <0.11 0.82 0.11 02/14/23 10:28 1,2-4-Trichlorobenzene ug/m3 <0.16 0.81 0.16 0.214/23 10:28 1,2-4-Trichlorobenzene ug/m3 <0.35 1.0 0.35 02/14/23 10:28 1,2-Dichloroethane (EDB) ug/m3 <0.31 0.78 0.31 0.78 0.31 0.28 1,2-Dichloropethane (EDB) ug/m3 <0.86 3.1 0.86 02/14/23 10:28 1,2-Dichloropethane (ug/m3) <0.20 0.94 0.20 02/14/23 10:28 1,2-Dichloropethane (ug/m3) <0.20 0.94 0.20 02/14/23 10:28 1,3-Butadiene (ug/m3) <0.21 0.27 1.0 0.27 02/14/23 10:28 1,3-Butadiene (ug/m3) <0.82 <td< th=""><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	-						
1,1,2-Trichloroethane ug/m3 <0.26	• •	•					
1,1,2-Trichlorotrifluorethane ug/m3 <0.23	1,1,2,2-Tetrachloroethane	•	<0.29	1.4	0.29	02/14/23 10:28	
1,1-Dichloroethane ug/m3 <0.11 0.82 0.11 0.214/23 10:28 1,1-Dichloroethene ug/m3 <0.16	1,1,2-Trichloroethane	ug/m3				02/14/23 10:28	
1,1-Dichloroethene ug/m3 <0.16 0.81 0.16 02/14/23 10:28 1,2.4-Trinchlorobenzene ug/m3 <5.7	1,1,2-Trichlorotrifluoroethane	0	< 0.23		0.23	02/14/23 10:28	
1.2,4-Trichlorobenzene ug/m3 <5.7	1,1-Dichloroethane	ug/m3	<0.11		0.11	02/14/23 10:28	
1,2,4-Trimethylbenzene ug/m3 <0.35	1,1-Dichloroethene	ug/m3	<0.16	0.81	0.16	02/14/23 10:28	
1,2-Dibromoethane (EDB) ug/m3 <0.31	1,2,4-Trichlorobenzene	ug/m3	<5.7	7.5	5.7	02/14/23 10:28	
1,2-Dichlorobenzene ug/m3 <0.86	1,2,4-Trimethylbenzene		< 0.35	1.0	0.35	02/14/23 10:28	
1,2-Dichloroethane ug/m3 <0.13	1,2-Dibromoethane (EDB)	ug/m3	< 0.31	0.78	0.31	02/14/23 10:28	
1,2-Dichloropropane ug/m3 <0.20	1,2-Dichlorobenzene	ug/m3	<0.86	3.1	0.86	02/14/23 10:28	
1,3,5-Trimethylbenzene ug/m3 <0.27	1,2-Dichloroethane	ug/m3	< 0.13	0.82	0.13	02/14/23 10:28	
1,3-Butadiene ug/m3 <0.11	1,2-Dichloropropane	ug/m3	< 0.20	0.94	0.20	02/14/23 10:28	
1,3-Dichlorobenzene ug/m3 <0.82	1,3,5-Trimethylbenzene	ug/m3	<0.27	1.0	0.27	02/14/23 10:28	
1,4-Dichlorobenzene ug/m3 <0.81	1,3-Butadiene	ug/m3	<0.11	0.45	0.11	02/14/23 10:28	
2-Butanone (MEK) ug/m3 <0.38	1,3-Dichlorobenzene	ug/m3	< 0.82	3.1	0.82	02/14/23 10:28	
2-Butanone (MEK) ug/m3 <0.38	1,4-Dichlorobenzene	ug/m3	<0.81	3.1	0.81	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-Butanone (MEK)	-	< 0.38	3.0	0.38	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		ug/m3	< 0.69	4.2	0.69	02/14/23 10:28	
4-Ethyltoluene ug/m3 <0.41	2-Propanol		< 0.96	2.5	0.96	02/14/23 10:28	
4-Methyl-2-pentanone (MIBK) ug/m3 <0.54	4-Ethyltoluene	-			0.41	02/14/23 10:28	
Acetone ug/m3 <2.2 6.0 2.2 02/14/23 10:28 Benzene ug/m3 <0.11	4-Methyl-2-pentanone (MIBK)	-	< 0.54	4.2	0.54	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		ug/m3	<2.2	6.0	2.2	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	Benzene	ug/m3	<0.11	0.32	0.11	02/14/23 10:28	
Bromodichloromethane ug/m3 <0.32 1.4 0.32 02/14/23 10:28 Bromoform ug/m3 <0.78	Benzyl chloride	-			0.77		
Bromoform ug/m3 <0.78 5.2 0.78 02/14/23 10:28 Bromomethane ug/m3 <0.30		•	< 0.32		0.32		
Bromomethane ug/m3 <0.30 0.79 0.30 02/14/23 10:28 Carbon disulfide ug/m3 <0.23	Bromoform	ug/m3	<0.78	5.2	0.78	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	Bromomethane		< 0.30	0.79	0.30	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	Carbon disulfide	-			0.23		
Chlorobenzene ug/m3 <0.14 0.94 0.14 02/14/23 10:28 Chloroethane ug/m3 <0.20	Carbon tetrachloride	-	< 0.42		0.42	02/14/23 10:28	
Chloroethane ug/m3 <0.20 0.54 0.20 02/14/23 10:28 Chloroform ug/m3 <0.13	Chlorobenzene		< 0.14		0.14	02/14/23 10:28	
Chloroform ug/m3 <0.13 0.50 0.13 02/14/23 10:28 Chloromethane ug/m3 <0.088	Chloroethane				0.20		
Chloromethane ug/m3 <0.088 0.42 0.088 02/14/23 10:28 cis-1,2-Dichloroethene ug/m3 <0.21	Chloroform	-	< 0.13	0.50	0.13	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	Chloromethane	-	<0.088	0.42	0.088	02/14/23 10:28	
cis-1,3-Dichloropropene ug/m3 <0.65		-					
Cyclohexane ug/m3 <0.13 1.8 0.13 02/14/23 10:28 Dibromochloromethane ug/m3 <0.36	· · · · · · · · · · · · · · · · · · ·						
Dibromochloromethane ug/m3 <0.36 1.7 0.36 02/14/23 10:28 Dichlorodifluoromethane ug/m3 <0.51		-					
Dichlorodifluoromethane ug/m3 <0.51 1.0 0.51 02/14/23 10:28 Dichlorotetrafluoroethane ug/m3 <0.24	-	-					
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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METHOD BLANK: 4576605 Matrix: Air

Associated Lab Samples: 10641966001, 10641966002

Doromotor	Units	Blank	Reporting Limit	MDI	Analyzad	Ovalifiara
Parameter	— Units	Result	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	
/inyl chloride	ug/m3	< 0.096	0.26	0.096	02/14/23 10:28	

ABORATORY CONTROL SAMPLE:	4576606					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1-Trichloroethane	ug/m3		51.8	89	70-133	
1,2,2-Tetrachloroethane	ug/m3	72.8	71.3	98	70-138	
1,2-Trichloroethane	ug/m3	58.3	57.2	98	70-133	
1,2-Trichlorotrifluoroethane	ug/m3	81.2	73.0	90	69-139	
1-Dichloroethane	ug/m3	42.5	38.5	91	70-133	
1-Dichloroethene	ug/m3	41.9	38.9	93	69-134	
2,4-Trichlorobenzene	ug/m3	175	173	99	70-130	
2,4-Trimethylbenzene	ug/m3	52.5	53.5	102	70-137	
2-Dibromoethane (EDB)	ug/m3	80.5	84.8	105	70-135	
2-Dichlorobenzene	ug/m3	63.9	73.3	115	70-133	
2-Dichloroethane	ug/m3	42.4	42.4	100	70-131	
2-Dichloropropane	ug/m3	49.3	43.4	88	70-130	
3,5-Trimethylbenzene	ug/m3	52.4	48.4	92	70-135	
3-Butadiene	ug/m3	23.9	20.7	86	69-137	
3-Dichlorobenzene	ug/m3	64.2	78.5	122	70-136	
4-Dichlorobenzene	ug/m3	64.3	66.1	103	70-135	
·Butanone (MEK)	ug/m3	31.3	32.1	103	70-135	

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ABORATORY CONTROL SAMPLE:	4576606					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifier
-Hexanone	ug/m3	43.4	45.6	105	70-130	
-Propanol	ug/m3	137	101	74	70-130	
-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
cetone	ug/m3	127	103	81	65-131	
enzene	ug/m3	33.8	30.6	91	70-130	
enzyl chloride	ug/m3	55.6	55.0	99	70-130	
romodichloromethane	ug/m3	71.5	68.0	95	70-132	
romoform	ug/m3	110	124	112	70-143	
romomethane	ug/m3	41.4	35.4	86	70-133	
arbon disulfide	ug/m3	33	30.2	92	70-131	
arbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
hlorobenzene	ug/m3	49	48.3	99	70-133	
hloroethane	ug/m3	28.1	21.3	76	64-140	
hloroform	ug/m3	52.1	46.9	90	70-133	
hloromethane	ug/m3	22	18.7	85	68-130	
s-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
s-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
yclohexane	ug/m3	36.4	30.8	85	70-134	
ibromochloromethane	ug/m3	90.6	91.7	101	70-134	
ichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
ichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
thanol	ug/m3	113	87.9	78	65-130	
thyl acetate	ug/m3	38.4	39.0	101	70-134	
thylbenzene	ug/m3	46.2	42.9	93	70-133	
lexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
sopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
ı&p-Xylene	ug/m3	92.4	82.1	89	70-130	
lethyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
lethylene Chloride	ug/m3	36.8	34.2	93	70-134	
-Heptane	ug/m3	43.5	35.0	81	69-140	
-Hexane	ug/m3	37.7	31.1	82	70-137	
laphthalene	ug/m3	63.9	60.7	95	70-130	
-Xylene	ug/m3	46	40.8	89	70-132	
ropylene	ug/m3	18.6	15.0	81	69-130	
tyrene	ug/m3	45.3	48.4	107	70-136	
etrachloroethene	ug/m3	72	69.2	96	70-139	
etrahydrofuran	ug/m3	31.3	26.8	85	70-139	
HC as Gas	ug/m3	5050	5700	113	70-136	
oluene	ug/m3	40.2	36.1	90	70-132	
ans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
ans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
richloroethene	ug/m3	57.2	56.8	99	70-132	
richlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
inyl acetate	ug/m3	38.7	40.9	106	70-131	
'inyl chloride	ug/m3	27.2	23.8	87	64-136	

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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	
	ug/m3	0.40J	0.37J		25	

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SAMPLE DUPLICATE: 4577302						
		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
n-Heptane	ug/m3		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						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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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SAMPLE DUPLICATE: 4577303						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Bromoform	ug/m3		<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.



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

Date: 02/20/2023 01:52 PM

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





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 Pace Project No.: 10641966

Date: 02/20/2023 01:52 PM

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		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company: Ct	Report To: My de 1264 De	Attention:		Program		
Address: A 70 Company Obse	Copy To:	Company Name:	***************************************		Emissions C	Clean Air Act
il and sor	,	Address:	The same areas and the same areas ar	☐ Voluntary Clean Up ☐ Dry C	Dry Clean ☐ RCRA ☐	☐ Other
Email To:	Purchase Order No.:	Pace Quote Reference:		1	0	its
Phone: Fax:	Project Name:	Pace Project Manager/Sales Rep.		Sampling by State	S I	mg/m³
Requested Due Date/TAT:	0-82848521	Pace Profile #:	***************************************	Report Level II. III. N	IV. Other	1
Sample IDs MUST BE UNIQUE Sample IDs MUST BE UNIQUE	Mode Mode	COLLECTED COMPOSITE CANISTOR Pressure (Initial Field - psig) Canister Pressure (Initial Field - psig)	Summa Can Control Number	Method: Method	187 NOUS \$150	Dace lab ID
T-851210-42	TP-009 644 1/32	(1/2/13	S\$2511885	*		0
2 St. 013127-5P	-010 6K	8- 8- 2421 (2/2) 2521 22/08	02610480	火		003
Somments:	RELINQUISHED	BY / AFFILIATION DATE TIME ACCOUNTY SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER.	ACCEPTED BY / AFFILIATION Wath A A Pace	DATE TIME 2/6/23 12:37	Cooler Y/N	SOUR Y/N
				525Z	Receip ol	bəlsəS

	1
	Dans
1	Pace
- [AREIVTICAL SEQUICE

DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt

(SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon	Client Name:	GHY).		Project	#:	WO# :	1064	1966	
Receipt Courier: FedEx Pace	UPS		USPS Commercial	Clie	nt		PM: CT1		Date: 0	2/20/23
Tracking Number:	□ spee	enee (commercial)X	See Exception		CLIENT: C	RA_INDY		
Custody Seal on Cooler/Box P	Present?	Yes	Ø No	<u>~</u>	dec rycebilon	L				
Seals Intact? Yes	☐ No		250							
Packing Material:	Bubble Wrap	☐ Bubble B	ags 🔀	Foam Other:			Date &	Initials of Person	0.0-	o -
	None	☐ Tin Can		Other:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Exa	mining Contents:	2-1-2	5 mil
								Comments:		
Chain of Custody Present?			Ye			1.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Chain of Custody Filled Out?			V Ye			2.				
Chain of Custody Relinquished Sampler Name and/or Signatu	~	***************************************	∑ Ye.		□ N/A	3. 4.		***************************************		
Samples Arrived within Hold Ti			X Ye		LIN/A	5.				
Short Hold Time Analysis (<72			A Te			6.				
Rush Turn Around Time Reque		***************************************	☐ Ye			7.				
Sufficient Volume?			☑ Ye			8.		***************************************		
Correct Containers Used?						9.				
(Tediar bags not acceptable co	ontainer for TO-15	or APH)	X Ye	s 🔲 No	* ,					
-Pace Containers Used?			¥ Ye:	s 🗌 No						
Containers Intact?			∕ Yes	s 🔲 No		10.		72		
(visual inspection/no leaks wh			72.10.							
Media: Air Can Airb							ndividually Certified C	ans? Y (N W	st which samples	5)
Is sufficient information availal		mples to the COC?				12.				
Do cans need to be pressurized (DO NOT PRESSURIZE 3C or AS			⊠ Ves	s 🔲 No		13.				
(DO NOT PRESSORIZE SC OF AS	31101 13401111									······································
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**************************************	Cani	isters	TOMINEO []	LOAINST 10	Altos DIOAIRI7		—— — ——	nisters		
	T			T			Cui	1136013		
	1 1	Flow	Initial	l Final				Flow	Initial	Final
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Nun	nber	Can ID	Flow Controller	Initial Pressure	Final Pressure
		Controller	Pressure	Pressure	Sample Nun	nber	Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun	nber	Can ID			
		Controller	Pressure	Pressure	Sample Nun	nber	Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun	nber	Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun	nber	Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun	nber	Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun		Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun		Can ID			
009	825	Controller 1885	Pressure	Pressure + S	Sample Nun		Can ID			
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010	825	Controller 1885	Pressure	Pressure + S	Sample Nun		Can ID			
OU9 O 10 CLIENT NOTIFICATION/RESOLU	825 840	Controller 1885	Pressure	Pressure + S						
CLIENT NOTIFICATION/RESOLU Person Contacted:	825 840	Controller 1885	Pressure	Pressure + S	Sample Nun			Controller	Pressure	Pressure
CLIENT NOTIFICATION/RESOLU	825 840	Controller 1885	Pressure	Pressure + S				Controller	Pressure	Pressure
CLIENT NOTIFICATION/RESOLU Person Contacted:	825 840	Controller 1885	Pressure	Pressure + S				Controller	Pressure	Pressure
CLIENT NOTIFICATION/RESOLU Person Contacted:	825 840	Controller (885 /420	Pressure	Pressure +5 +5	Date/Time:			Controller	Pressure	Pressure
CLIENT NOTIFICATION/RESOLU Person Contacted Comments/Resolution:	825 840	Controller (885 /420	Pressure	Pressure +5 +5	Date/Time:		Field	Controller	Pressure	Pressure
CLIENT NOTIFICATION/RESOLU Person Contacted:	825 840	Controller 1885 1920 Caroly	Pressure -2.5 -2	Pressure +S +S Trow	Date/Time:	D	Field	Controller Data Required?	Pressure	Pressure

Qualtrax ID: 52723





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 That

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





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

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 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 #: 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 (*).





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



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



PROJECT NARRATIVE

Project: 12584838-03 CMW

Pace Project No.: 10641964

Method: TO-15

Description:TO15 MSV AIRClient:GHD Services_AIRDate: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.



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

Sample: IA-013123-TP-001	Lab ID:	Lab ID: 10641964001 Collected: 01/31/23 09:53 Received: 02/06/						6/23 12:37 Matrix: Air		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical	Method: TO-15								
	Pace Ana	lytical Services -	- Minneapo	olis						
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			
Benzyl chloride	<1.1	ug/m3	3.9	1.1	1.49		02/14/23 13:54			
Bromodichloromethane	0.60J	ug/m3	2.0	0.48	1.49		02/14/23 13:54			
Bromoform	<1.2	ug/m3	7.8	1.2	1.49		02/14/23 13:54			
Bromomethane	<0.44	ug/m3	1.2	0.44	1.49		02/14/23 13:54			
1,3-Butadiene	<0.17	ug/m3	0.67	0.17	1.49		02/14/23 13:54			
2-Butanone (MEK)	2.7J	ug/m3	4.5	0.17	1.49		02/14/23 13:54			
Carbon disulfide	<0.35	ug/m3	0.94	0.35	1.49		02/14/23 13:54			
Carbon tetrachloride	2.7J	ug/m3	4.8	0.62	1.49		02/14/23 13:54		SS	
Chlorobenzene	<0.21	ug/m3	1.4	0.02	1.49		02/14/23 13:54		00	
Chloroethane	<0.31	ug/m3	0.80	0.21	1.49		02/14/23 13:54			
Chloroform	1.5	ug/m3	0.74	0.20	1.49		02/14/23 13:54			
Chloromethane	2.1	ug/m3	0.74	0.20	1.49		02/14/23 13:54			
Cyclohexane	<0.20	ug/m3	2.6	0.13	1.49		02/14/23 13:54			
Dibromochloromethane	<0.54	ug/m3	2.6	0.20	1.49		02/14/23 13:54			
1,2-Dibromoethane (EDB)	<0.46	ug/m3	1.2	0.34	1.49		02/14/23 13:54			
1,2-Dichlorobenzene	<1.3	ug/m3	4.6	1.3	1.49		02/14/23 13:54			
1,3-Dichlorobenzene	<1.2	ug/m3	4.6	1.2	1.49		02/14/23 13:54			
1,4-Dichlorobenzene	<1.2	ug/m3	4.6	1.2	1.49		02/14/23 13:54			
Dichlorodifluoromethane	1.8	ug/m3	4.6 1.5	0.76	1.49		02/14/23 13:54			
1,1-Dichloroethane	<0.16	ug/m3	1.3	0.76	1.49		02/14/23 13:54			
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.18	1.49		02/14/23 13:54			
1,1-Dichloroethene	<0.19	ug/m3	1.2	0.19	1.49		02/14/23 13:54			
*		J								
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.49 1.49		02/14/23 13:54			
trans-1,2-Dichloroethene	<0.62	ug/m3	1.2	0.62			02/14/23 13:54			
1,2-Dichloropropane	<0.30	ug/m3	1.4	0.30	1.49		02/14/23 13:54			
cis-1,3-Dichloropropene	<0.97	ug/m3	3.4	0.97	1.49		02/14/23 13:54			
trans-1,3-Dichloropropene	<1.2	ug/m3	3.4	1.2	1.49		02/14/23 13:54			
Dichlorotetrafluoroethane	<0.36	ug/m3	2.1	0.36	1.49		02/14/23 13:54			
Ethanol	132	ug/m3	2.9	1.3	1.49		02/14/23 13:54			
Ethyl acetate	2.6	ug/m3	1.1	0.24	1.49		02/14/23 13:54			
Ethylbenzene	0.68J	ug/m3	1.3	0.27	1.49		02/14/23 13:54			
4-Ethyltoluene	<0.61	ug/m3	3.7	0.61	1.49		02/14/23 13:54			
n-Heptane	0.82J	ug/m3	1.2	0.19	1.49		02/14/23 13:54			
Hexachloro-1,3-butadiene	<2.6	ug/m3	8.1	2.6	1.49		02/14/23 13:54			
n-Hexane	0.61J	ug/m3	1.1	0.35	1.49		02/14/23 13:54			
2-Hexanone	<1.0	ug/m3	6.2	1.0	1.49		02/14/23 13:54			
Isopropylbenzene (Cumene)	<0.87	ug/m3	3.7	0.87	1.49		02/14/23 13:54			
Methylene Chloride	0.40J	ug/m3	5.3	0.19	1.49		02/14/23 13:54			
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.2	0.80	1.49		02/14/23 13:54			
Methyl-tert-butyl ether	<0.37	ug/m3	5.5	0.37	1.49		02/14/23 13:54			
Naphthalene	<3.1	ug/m3	4.0	3.1	1.49		02/14/23 13:54			
2-Propanol	13.9	ug/m3	3.7	1.4	1.49		02/14/23 13:54			
Propylene	5.9	ug/m3	1.3	0.53	1.49		02/14/23 13:54	115-07-1		



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

Sample: IA-013123-TP-001	Lab ID:	10641964001	Collected	d: 01/31/2	3 09:53	Received: 02	2/06/23 12:37 M	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
	Pace Anal	ytical Services	- Minneapo	lis					
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		
Tetrachloroethene	<0.37	ug/m3	1.0	0.37	1.49		02/14/23 13:54		
Tetrahydrofuran	1.1	ug/m3	0.89	0.28	1.49		02/14/23 13:54		
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		
1,1,1-Trichloroethane	<0.27	ug/m3	1.7	0.27	1.49		02/14/23 13:54		
1,1,2-Trichloroethane	<0.38	ug/m3	0.83	0.38	1.49		02/14/23 13:54		
Trichloroethene	6.1	ug/m3	0.81	0.36	1.49		02/14/23 13:54		
Trichlorofluoromethane	1.1J	ug/m3	1.7	0.30	1.49		02/14/23 13:54		
1,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.3	0.34	1.49		02/14/23 13:54		
1,2,4-Trimethylbenzene	0.60J	ug/m3	1.5	0.52	1.49		02/14/23 13:54		
1,3,5-Trimethylbenzene	<0.41	ug/m3	1.5	0.41	1.49		02/14/23 13:54		
Vinyl acetate	<0.26	ug/m3	1.1	0.26	1.49		02/14/23 13:54		
Vinyl chloride	<0.14	ug/m3	0.39	0.14	1.49		02/14/23 13:54		
m&p-Xylene	2.5J	ug/m3	2.6	0.73	1.49		02/14/23 13:54		
o-Xylene	0.68J	ug/m3	1.3	0.27	1.49		02/14/23 13:54		
Sample: IA-013123-TP-002	Lab ID:	10641964002	Collected	d: 01/31/2	3 09:52	Received: 02	2/06/23 12:37 IVI	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
		Units — — — — — — — — — — — — — — — — — — —		MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical				DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Pace Anal	Method: TO-15 lytical Services	- Minneapo	lis		Prepared			Qual
TO15 MSV AIR Acetone	Analytical Pace Anal	Method: TO-15 lytical Services ug/m3	- Minneapo 8.5	lis	1.41	Prepared	02/14/23 15:03	67-64-1	Qual
TO15 MSV AIR Acetone Benzene	Analytical Pace Anal 18.8 0.56	Method: TO-15 lytical Services - ug/m3 ug/m3	- Minneapo 8.5 0.46	lis 3.1 0.16	1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2	Qual
TO15 MSV AIR Acetone Benzene Benzyl chloride	Analytical Pace Anal 18.8 0.56 <1.1	Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7	3.1 0.16 1.1	1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7	Qual
TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Analytical Pace Anal 18.8 0.56 <1.1 <0.45	Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7 1.9	3.1 0.16 1.1 0.45	1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4	Qual
TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4	3.1 0.16 1.1 0.45 1.1	1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qual
TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4	3.1 0.16 1.1 0.45 1.1 0.42	1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qual
TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4 1.1 0.63	3.1 0.16 1.1 0.45 1.1 0.42 0.16	1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53	1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20 <0.29	Method: TO-15 lytical Services of ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5 1.3 0.76	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20 0.29	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20 <0.29 0.33J	Method: TO-15 lytical Services of 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	- Minneapo 8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5 1.3 0.76 0.70	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20 0.29 0.19	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20 <0.29 0.33J 0.64	Method: TO-15 lytical Services of 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 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5 1.3 0.76 0.70 0.59	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20 0.29 0.19	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	Qual
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20 <0.29 0.33J 0.64 <0.19	Method: TO-15 lytical Services of 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 ug/m3 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5 1.3 0.76 0.70 0.59 2.5	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20 0.29 0.19 0.12	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB)	Analytical Pace Anal 18.8 0.56 <1.1 <0.45 <1.1 <0.42 <0.16 <0.53 <0.33 <0.59 <0.20 <0.29 0.33J 0.64	Method: TO-15 lytical Services of 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 ug/m3	- Minneapo 8.5 0.46 3.7 1.9 7.4 1.1 0.63 4.2 0.89 4.5 1.3 0.76 0.70 0.59	3.1 0.16 1.1 0.45 1.1 0.42 0.16 0.53 0.33 0.59 0.20 0.29 0.19	1.41 1.41 1.41 1.41 1.41 1.41 1.41 1.41	Prepared	02/14/23 15:03 02/14/23 15:03	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	Qual



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

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 Anal	ytical Service	es - Minneapo	lis					
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		
Dichlorodifluoromethane	1.5	ug/m3	1.4	0.72	1.41		02/14/23 15:03		
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.41		02/14/23 15:03		
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.41		02/14/23 15:03		
1,1-Dichloroethene	<0.23	ug/m3	1.1	0.10	1.41		02/14/23 15:03		
cis-1,2-Dichloroethene	<0.30	ug/m3	1.1	0.20	1.41		02/14/23 15:03		
trans-1,2-Dichloroethene	<0.59	ug/m3	1.1	0.59	1.41		02/14/23 15:03		
1,2-Dichloropropane	<0.28	ug/m3	1.3	0.39	1.41		02/14/23 15:03		
		•	3.3	0.20	1.41				
cis-1,3-Dichloropropene	<0.92	ug/m3			1.41		02/14/23 15:03		
trans-1,3-Dichloropropene	<1.1 -0.24	ug/m3	3.3	1.1	1.41		02/14/23 15:03		
Dichlorotetrafluoroethane Ethanol	<0.34 17.1	ug/m3	2.0 2.7	0.34 1.3	1.41 1.41		02/14/23 15:03 02/14/23 15:03		
		ug/m3							
Ethyl acetate	<0.23	ug/m3	1.0	0.23	1.41		02/14/23 15:03		
Ethylbenzene	<0.25	ug/m3	1.2	0.25	1.41		02/14/23 15:03		
4-Ethyltoluene	<0.57	ug/m3	3.5	0.57	1.41		02/14/23 15:03		
n-Heptane	0.27J	ug/m3	1.2	0.18	1.41		02/14/23 15:03		
Hexachloro-1,3-butadiene	<2.5	ug/m3	7.6	2.5	1.41		02/14/23 15:03		
n-Hexane	<0.33	ug/m3	1.0	0.33	1.41		02/14/23 15:03		
2-Hexanone	<0.97	ug/m3	5.9	0.97	1.41		02/14/23 15:03		
Isopropylbenzene (Cumene)	<0.82	ug/m3	3.5	0.82	1.41		02/14/23 15:03		
Methylene Chloride	0.21J	ug/m3	5.0	0.18	1.41		02/14/23 15:03		
4-Methyl-2-pentanone (MIBK)	<0.76	ug/m3	5.9	0.76	1.41		02/14/23 15:03		
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		
Trichlorofluoromethane	0.98J	ug/m3	1.6	0.28	1.41		02/14/23 15:03		
1,1,2-Trichlorotrifluoroethane	0.38J	ug/m3	2.2	0.32	1.41		02/14/23 15:03		
1,2,4-Trimethylbenzene	< 0.49	ug/m3	1.4	0.49	1.41		02/14/23 15:03		
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.41		02/14/23 15:03		
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.41		02/14/23 15:03		
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.41		02/14/23 15:03		
m&p-Xylene	< 0.69	ug/m3	2.5	0.69	1.41		02/14/23 15:03		
o-Xylene	<0.25	ug/m3	1.2	0.05	1.41		02/14/23 15:03		



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

Sample: AA-013123-TP-003 Lab ID: 10641964003 Collected: 01/31/23 10:31 Received: 02/06/23 12:37 Matrix: Air PQL DF **Parameters** Results Units MDI Prepared CAS No. Analyzed 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 02/14/23 16:11 75-27-4 Bromodichloromethane < 0.43 ug/m3 1.8 0.43 1.34 Bromoform <1.0 ug/m3 7.0 1.0 1 34 02/14/23 16:11 75-25-2 ug/m3 Bromomethane < 0.40 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 ug/m3 Chloroethane < 0.27 0.72 0.27 1.34 02/14/23 16:11 75-00-3 ug/m3 Chloroform < 0.18 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 ug/m3 Cyclohexane <0.18 2.3 0.18 1.34 02/14/23 16:11 110-82-7 <0.48 02/14/23 16:11 124-48-1 Dibromochloromethane ug/m3 2.3 0.48 1.34 02/14/23 16:11 106-93-4 1,2-Dibromoethane (EDB) < 0.41 ug/m3 1.0 0.41 1.34 02/14/23 16:11 95-50-1 1,2-Dichlorobenzene <1.2 ug/m3 1.2 1.34 4.1 ug/m3 1.1 1.34 02/14/23 16:11 541-73-1 1.3-Dichlorobenzene <1.1 4.1 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 0.14 1.34 02/14/23 16:11 75-34-3 1.1 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 02/14/23 16:11 78-87-5 1,2-Dichloropropane <0.27 ug/m3 1.3 0.27 1 34 cis-1,3-Dichloropropene <0.88 ug/m3 3 1 0.88 1.34 02/14/23 16:11 10061-01-5 ug/m3 02/14/23 16:11 10061-02-6 trans-1,3-Dichloropropene <1.0 3 1 1.0 1.34 Dichlorotetrafluoroethane < 0.33 ug/m3 0.33 76-14-2 1.9 1.34 02/14/23 16:11 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 0.43J ug/m3 0.96 0.31 1.34 110-54-3 n-Hexane 02/14/23 16:11 <0.92 ug/m3 5.6 0.92 1.34 2-Hexanone 02/14/23 16:11 591-78-6 Isopropylbenzene (Cumene) <0.78 ug/m3 3.4 0.78 1.34 98-82-8 02/14/23 16:11 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 02/14/23 16:11 115-07-1 1.2 0.48 1.34



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

Sample: AA-013123-TP-003	Lab ID:	10641964003	Collecte	d: 01/31/2	3 10:31	Received: 02	/06/23 12:37 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
	Pace Anal	ytical Services	- Minneapo	lis					
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	



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

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

		Blank	Reporting			
Parameter	Units	Result	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.



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

METHOD BLANK: 4576605 Matrix: Air

Associated Lab Samples: 10641964001, 10641964002, 10641964003

5	11.5	Blank	Reporting	MO		0 1.0
Parameter	Units	Result	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	
/inyl 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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3		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	

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.



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

LABORATORY CONTROL SAMPLE:	4576606	Spike	LCS	LCS	% Rec
Parameter	Units	Conc.	Result	% 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
1-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	70-134
Hexachloro-1,3-butadiene	ug/m3	130	133	102	70-133
sopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-141
n&p-Xylene	ug/m3	92.4	82.1	89	70-130
	-		33.1	86	70-130 70-132
Methyl-tert-butyl ether	ug/m3	38.3	33.1 34.2	93	70-132 70-134
Methylene Chloride	ug/m3	36.8			
n-Heptane	ug/m3	43.5	35.0	81	69-140
n-Hexane	ug/m3	37.7	31.1 60.7	82	70-137
Naphthalene	ug/m3	63.9		95	70-130 70-132
o-Xylene	ug/m3	46	40.8	89	
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
oluene	ug/m3	40.2	36.1	90	70-132
rans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132
rans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130
richloroethene	ug/m3	57.2	56.8	99	70-132
Trichlorofluoromethane	ug/m3	60.3	48.2	80	65-139
/inyl 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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Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifier
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	
I,1-Dichloroethane	ug/m3	<0.16	<0.16		25	
,1-Dichloroethene	ug/m3	<0.24	< 0.24		25	
I,2,4-Trichlorobenzene	ug/m3	<8.5	<8.5		25	
,2,4-Trimethylbenzene	ug/m3	0.60J	0.57J		25	
,2-Dibromoethane (EDB)	ug/m3	< 0.46	< 0.46		25	
,2-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
,2-Dichloroethane	ug/m3	<0.19	<0.19		25	
,2-Dichloropropane	ug/m3	< 0.30	<0.30		25	
,3,5-Trimethylbenzene	ug/m3	<0.41	<0.41		25	
,3-Butadiene	ug/m3	<0.17	<0.17		25	
,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
,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	
P-Propanol	ug/m3	13.9	12.9	8	25	
-Ethyltoluene	ug/m3	<0.61	<0.61	Ö	25	
-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	7	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	
is-1,2-Dichloroethene	ug/m3	<0.32	<0.32	0	25	
-	•	< 0.97	<0.97		25	
sis-1,3-Dichloropropene	ug/m3	<0.20	<0.20		25	
Cyclohexane	ug/m3	<0.54				
Dibromochloromethane	ug/m3		<0.54	44	25	
Dichlorodifluoromethane	ug/m3	1.8	1.6	11	25	
Dichlorotetrafluoroethane	ug/m3	<0.36	< 0.36	4	25	
thanol	ug/m3	132	127	4	25	
thyl acetate	ug/m3	2.6	2.4	6	25	
thylbenzene	ug/m3	0.68J	0.67J		25	
lexachloro-1,3-butadiene	ug/m3	<2.6	<2.6		25	
sopropylbenzene (Cumene)	ug/m3	<0.87	<0.87		25	
n&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	

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.



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
n-Heptane	ug/m3		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	
rans-1,2-Dichloroethene	ug/m3	< 0.62	< 0.62		25	
rans-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	
/inyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	< 0.14	< 0.14		25	

SAMPLE DUPLICATE: 4577303						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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.



Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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	
sopropylbenzene (Cumene)	ug/m3	<0.82	< 0.82		25	
n&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	
oluene	ug/m3	1.3	1.4	4	25	
rans-1,2-Dichloroethene	ug/m3	< 0.59	< 0.59		25	
rans-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	
/inyl acetate	ug/m3	< 0.25	< 0.25		25	
/inyl 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.



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

Date: 02/20/2023 01:52 PM

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





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 CMW

Pace Project No.: 10641964

Date: 02/20/2023 01:52 PM

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

Pace Analytical www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Section B Required Client Information: () HEY Required P	Section B Required Project Information:	<i>o</i> , =	Section C Invoice Information:	ion:						58342	Page:	je: (of	1
(550 Corporatelle	TO: M. Tre 128 hours		Attention:					1000		Program			
anyolis	Klen		Company Name						T UST T	Superfund En	Emissions	Clean Air Act	Act
42		A	Address:						☐ Voluntary C	Voluntary Clean Up Dry Cl		RCRA L	Other
Email To: Purchas	Purchase Order No.:		Pace Quote Reference:	erence:					1		Rep	ting	
Phone: Fax: Project	Project Name:	0.	Pace Project Manager/Sales Rep.	nager/Sales R	de;				Location of Sampling by State	State A.N.	PPBV	'- mg/m³. V — PPMV _	
Requested Due Date/TAT: Shankow Project	F. 125848:38	20-	Pace Profile #:					***************************************	Report Level	II III IV.	/. Other	e.	
'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes ODE MEDIA CODE MEDIA CODE Todat Bag Tr T Liter Summa Can 1LC C Liter Summa Can 1LC Low Volume Puff LVP High Yolume Puff LVP Onhear Dutro Onhear Dutro	COMPOSITE START	COLLECTED	D COMPOSITE.	ister Pressure ial Field - in Hg)	lal Field - in Hg)	Summa Can Number	Flow Control Number	Method:	John List VOS	Delivory 1817 holy of the Color	(iso	
One	MEDIA		TIME DATE	END/GRAB	itinl)				PM10 36.78 10.38	10,15 / 10,15 S/ 10,1	10.15.81	Pace Lab ID	Q o
1 IA.013123-172-00	779 10	1/30/13	3/10/04/23	23 9:53	18	2/5	500	0 0		Ł		100.	
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					4	١,,,	<u> </u>	1.			IV/X	N/A) N/A
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MO#: 10641964			SAMP PRINT N SIGNATI	SAMPLER NAME A PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	ND SIGNATU	S. Fun	1 /20	DATE Signed (MM / DD / YY/	/ YY)		O° ni qmaT no baviacaA	lce Custody Sealed Cooler	samples Intact

echnical Phone: 612.607.6386

Page 19 of 20

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1	Pace
1	1 acc
1	ANALYTICAL SERVICES

DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt

(SCUR) - Air

Effective Date: 02/25/2022

Air Sample Condition Upon	Client Name:	0110	<u>.</u>		Project	WO1	#:10	0641	904	
Receipt urier: FedEx Pace acking Number:	UPS)] USPS] Commercial	☐ Client	2	PM: C	T1 T: CRA_		ite: 02/2	0/23
stody Seal on Cooler/Box P als Intact?	resent?	Yes	No							
cking Material:	Bubble Wrap None	☐ Bubble Ba		am her:			Date & I	nitials of Person nining Contents:	2-7-2	3 mI
ain of Custody Present?		1)	(Z)v	T				Comments:		
in of Custody Filled Out?			Yes	□ No		1.				
in of Custody Relinquished	?		Yes	□No		3.			******	
npler Name and/or Signatu	re on COC?		⊠ Yes	☐ No	□ N/A	4.				
nples Arrived within Hold T			Æ Yes	☐ No		5.				
ort Hold Time Analysis (<72			Yes	No		6.				
sh Turn Around Time Reque ficient Volume?	ested?		☐ Yes	X No		7.				
rrect Containers Used?			▼ Yes	☐ No		8. 9.				
edlar bags not acceptable co ace Containers Used?	ontainer for TO-15	or APH)	X Yes ✓ Yes	□ No		J.				
ntainers Intact? sual inspection/no leaks wi	nen pressurized)		Yes	□ No		10.				
edia: (Air Can) Airb	ag					11. Individua	Ily Certified C	ans? Y (N W	st which samples)
sufficient information availa		mples to the COC?	Yes	☐ No	- 1	12.				
cans need to be pressurized O NOT PRESSURIZE 3C or AS			X √Ves	□ No		13.			*	
		Gauge #: 1	.0AIR26	IR34 🔲 10AI	R35	☐ 10AIR47 °	Lacarda			
	Cani	isters	TOAIRZO 10A	IN34 LI TUAL	K35 LIUAIKI7	IUAIR47	7	nisters		
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Nur	mber	Can ID	Flow Controller	Initial Pressure	Final Pressure
001	1050	860	-3	+5						
002	3343	20/2	-1.5						1	
	3598			-+					-	
003	33/8	2096	0	4						
						2				
~						3	-			
LIENT NOTIFICATION/RESOL					Date/Time:		Field	Data Required?	Yes	□ No
Comments/Resolution										

Qualtrax ID: 52723

Pace Analytical Services, LLC 1700 Elm Street Minneapolis, MN 55414 (612)607-1700



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 That

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





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 #: Al-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 (*).



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



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



PROJECT NARRATIVE

Project: 12584838-03 CMW

Pace Project No.: 10641962

Method: TO-15

Description:TO15 MSV AIRClient:GHD Services_AIRDate: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.



Project: 12584838-03 CMW

Pace Project No.: 10641962

2-Propanol

Date: 02/20/2023 01:53 PM

Propylene

Sample: AC-013123-TP-004 Lab ID: 10641962001 Collected: 01/31/23 11:59 Received: 02/06/23 12:37 Matrix: Air PQL DF **Parameters** Results Units MDI Prepared CAS No. Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 Pace Analytical Services - Minneapolis Acetone ug/m3 8.4 1.39 02/14/23 16:46 67-64-1 <3.1 3.1 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 ug/m3 Bromomethane < 0.41 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) 02/14/23 16:46 78-93-3 < 0.52 ug/m3 4.2 0.52 1.39 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 ug/m3 0.75 Chloroethane < 0.28 0.28 1.39 02/14/23 16:46 75-00-3 ug/m3 Chloroform 0.72 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 ug/m3 Cyclohexane <0.19 2.4 0.19 1.39 02/14/23 16:46 110-82-7 02/14/23 16:46 124-48-1 <0.50 0.50 Dibromochloromethane ug/m3 2.4 1.39 02/14/23 16:46 106-93-4 1,2-Dibromoethane (EDB) < 0.43 ug/m3 1.1 0.43 1.39 02/14/23 16:46 95-50-1 1,2-Dichlorobenzene <1.2 ug/m3 4.3 1.2 1.39 4.3 1.39 02/14/23 16:46 541-73-1 1.3-Dichlorobenzene <1.1 ug/m3 1.1 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 0.15 1.39 02/14/23 16:46 75-34-3 1.1 1,2-Dichloroethane <0.18 ug/m3 1.1 0.18 1.39 02/14/23 16:46 107-06-2 ug/m3 1.39 1,1-Dichloroethene <0.23 1.1 0.23 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 02/14/23 16:46 78-87-5 1,2-Dichloropropane <0.28 ug/m3 1.3 0.28 1 39 cis-1,3-Dichloropropene <0.91 ug/m3 3.2 0.91 1.39 02/14/23 16:46 10061-01-5 ug/m3 3.2 02/14/23 16:46 10061-02-6 trans-1,3-Dichloropropene <1.1 1.1 1.39 Dichlorotetrafluoroethane <0.34 ug/m3 2.0 0.34 02/14/23 16:46 76-14-2 1.39 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 0.80J ug/m3 0.32 1.39 110-54-3 n-Hexane 1.0 02/14/23 16:46 < 0.96 ug/m3 5.8 0.96 2-Hexanone 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 02/14/23 16:46 108-10-1 4-Methyl-2-pentanone (MIBK) < 0.75 ug/m3 5.8 0.75 1.39 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

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1.3

0.50

1.39

1.39

3.5

1.2

1.4J

<0.50

ug/m3

ug/m3

02/14/23 16:46 67-63-0

02/14/23 16:46 115-07-1



Collected: 01/31/23 11:59 Received: 02/06/23 12:37 Matrix: Air

Lab ID: 10641962001

Project: 12584838-03 CMW

Pace Project No.: 10641962

Sample: AC-013123-TP-004

Date: 02/20/2023 01:53 PM

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua
TO15 MSV AIR	Analytical	Method: TO-15							
	Pace Ana	lytical Services -	Minneapo	lis					
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		
1,1,2-Trichloroethane	<0.36	ug/m3	0.77	0.36	1.39		02/14/23 16:46		
Trichloroethene	48.0	ug/m3	0.76	0.33	1.39		02/14/23 16:46		
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.28	1.39		02/14/23 16:46		
1,1,2-Trichlorotrifluoroethane	0.42J	ug/m3	2.2	0.32	1.39		02/14/23 16:46		
1,2,4-Trimethylbenzene	<0.49	ug/m3	1.4	0.49	1.39		02/14/23 16:46		
1,3,5-Trimethylbenzene	<0.38	ug/m3	1.4	0.43	1.39		02/14/23 16:46		
Vinyl acetate	<0.24	ug/m3	1.4	0.30	1.39		02/14/23 16:46		
•	<0.13	ug/m3	0.36	0.24	1.39		02/14/23 16:46		
Vinyl chloride		ū			1.39				
m&p-Xylene	0.89J 0.32J	ug/m3 ug/m3	2.5 1.2	0.68 0.25	1.39		02/14/23 16:46 02/14/23 16:46		
o-Xylene	0.323	ug/III3	1.2	0.23	1.39		02/14/23 10.40	93-47-0	
Sample: IA-013123-TP-005	Lab ID:	10641962002	Collecte	d: 01/31/2	3 11:55	Received: 02	2/06/23 12:37 M	atrix: Air	
Sample: IA-013123-TP-005 Parameters	Lab ID:	10641962002 Units	Collecte	d: 01/31/23 MDL	3 11:55 DF	Received: 02	2/06/23 12:37 Ma	atrix: Air CAS No.	Qua
Parameters	Results	Units							Qua
•	Results Analytical	Units — Method: TO-15	PQL -	MDL					Qua
Parameters TO15 MSV AIR	Results Analytical Pace Ana	Units Method: TO-15 lytical Services -	PQL -	MDL	DF		Analyzed	CAS No.	Qua
Parameters TO15 MSV AIR	Results Analytical	Units Method: TO-15 lytical Services - ug/m3	PQL -	MDL				CAS No.	Qua
Parameters TO15 MSV AIR Acetone	Results Analytical Pace Ana 7.7J 0.89	Units Method: TO-15 lytical Services -	PQL - Minneapo 8.7 0.47	MDL	DF 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2	Qua
Parameters TO15 MSV AIR Acetone Benzene	Results Analytical Pace Ana 7.7J	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 8.7 0.47 3.8	MDL lis	DF 1.44		Analyzed 02/14/23 17:20	CAS No. 67-64-1 71-43-2	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride	Results Analytical Pace Ana 7.7J 0.89	Units Method: TO-15 lytical Services - ug/m3 ug/m3	PQL - Minneapo 8.7 0.47	MDL lis 3.2 0.16	DF 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Analytical Pace Ana 7.7J 0.89 <1.1	Units Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8	MDL lis 3.2 0.16 1.1	DF 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46	Units Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.7 0.47 3.8 2.0	MDL lis 3.2 0.16 1.1 0.46	1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1	Units Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL 8.7 0.47 3.8 2.0 7.6	MDL lis 3.2 0.16 1.1 0.46 1.1	1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43	Units Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1	MDL lis 3.2 0.16 1.1 0.46 1.1 0.43	1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16	Units Method: TO-15 lytical Services - ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16	1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54	1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	Qua
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J <0.20 <0.30	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J <0.20 <0.30 0.47J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J <0.20 <0.30 0.47J <0.13	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71 0.60	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19 0.13	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane	Results Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J <0.20 <0.30 0.47J <0.13 0.72J	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71 0.60 2.5	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19 0.13 0.19	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	Analytical Pace Ana 7.7J 0.89 <1.1 <0.46 <1.1 <0.43 <0.16 1.1J <0.34 2.2J <0.20 <0.30 0.47J <0.13	Units Method: TO-15 lytical Services - ug/m3	PQL 8.7 0.47 3.8 2.0 7.6 1.1 0.65 4.3 0.91 4.6 1.3 0.77 0.71 0.60	MDL 3.2 0.16 1.1 0.46 1.1 0.43 0.16 0.54 0.34 0.60 0.20 0.30 0.19 0.13	1.44 1.44 1.44 1.44 1.44 1.44 1.44 1.44		Analyzed 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20 02/14/23 17:20	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	

REPORT OF LABORATORY ANALYSIS

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Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

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.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Anal	ytical Service	s - Minneapo	lis					
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	-	
Dichlorodifluoromethane	1.9	ug/m3	1.5	0.74	1.44		02/14/23 17:20		
1,1-Dichloroethane	<0.15	ug/m3	1.2	0.15	1.44		02/14/23 17:20		
1,2-Dichloroethane	<0.18	ug/m3	1.2	0.18	1.44		02/14/23 17:20		
1,1-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		02/14/23 17:20		
cis-1,2-Dichloroethene	0.81J	ug/m3	1.2	0.31	1.44		02/14/23 17:20		
rans-1,2-Dichloroethene	< 0.60	ug/m3	1.2	0.60	1.44		02/14/23 17:20		
,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.44		02/14/23 17:20		
sis-1,3-Dichloropropene	<0.94	ug/m3	3.3	0.94	1.44		02/14/23 17:20		
rans-1,3-Dichloropropene	<1.1	ug/m3	3.3	1.1	1.44		02/14/23 17:20		
Dichlorotetrafluoroethane	<0.35	ug/m3	3.3 2.0	0.35	1.44		02/14/23 17:20		
Ethanol	78.2	ug/m3	2.8	1.3	1.44		02/14/23 17:20		
Ethyl acetate	1.9	-	1.1	0.23	1.44				
-		ug/m3 ug/m3					02/14/23 17:20		
Ethylbenzene	0.49J	-	1.3	0.26	1.44		02/14/23 17:20		
l-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.44		02/14/23 17:20		
-Heptane	0.89J	ug/m3	1.2	0.19	1.44		02/14/23 17:20		
lexachloro-1,3-butadiene	<2.5	ug/m3	7.8	2.5	1.44		02/14/23 17:20		
-Hexane	1.8	ug/m3	1.0	0.33	1.44		02/14/23 17:20		
-Hexanone	<0.99	ug/m3	6.0	0.99	1.44		02/14/23 17:20		
sopropylbenzene (Cumene)	<0.84	ug/m3	3.6	0.84	1.44		02/14/23 17:20		
lethylene Chloride	0.24J	ug/m3	5.1	0.18	1.44		02/14/23 17:20		
-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.0	0.77	1.44		02/14/23 17:20		
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	
?-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	
,1,2,2-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	
HC as Gas	<153	ug/m3	304	153	1.44		02/14/23 17:20		
oluene	3.4	ug/m3	1.1	0.23	1.44		02/14/23 17:20	108-88-3	
,2,4-Trichlorobenzene	<8.3	ug/m3	10.9	8.3	1.44		02/14/23 17:20	120-82-1	
,1,1-Trichloroethane	1.1J	ug/m3	1.6	0.26	1.44		02/14/23 17:20	71-55-6	
,1,2-Trichloroethane	<0.37	ug/m3	0.80	0.37	1.44		02/14/23 17:20	79-00-5	
richloroethene	29.3	ug/m3	0.79	0.34	1.44		02/14/23 17:20		
richlorofluoromethane	1.2J	ug/m3	1.6	0.29	1.44		02/14/23 17:20		
,1,2-Trichlorotrifluoroethane	0.48J	ug/m3	2.2	0.33	1.44		02/14/23 17:20		
,2,4-Trimethylbenzene	0.58J	ug/m3	1.4	0.50	1.44		02/14/23 17:20		
,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.44		02/14/23 17:20		
/inyl acetate	<0.25	ug/m3	1.0	0.39	1.44		02/14/23 17:20		
/inyl chloride	<0.23 <0.14	ug/m3	0.37	0.23	1.44		02/14/23 17:20		
		-		0.14	1.44		02/14/23 17:20		
m&p-Xylene o-Xylene	1.9J 0.69J	ug/m3 ug/m3	2.5 1.3	0.71	1.44		02/14/23 17:20 02/14/23 17:20		



Project: 12584838-03 CMW

Pace Project No.: 10641962

Propylene

Date: 02/20/2023 01:53 PM

Sample: IA-013123-TP-006 Lab ID: 10641962003 Collected: 01/31/23 11:55 Received: 02/06/23 12:37 Matrix: Air PQL DF **Parameters** Results Units MDI Prepared CAS No. Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 Pace Analytical Services - Minneapolis Acetone 7.2J ug/m3 8.5 1.41 02/14/23 17:55 67-64-1 3.1 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 0.80J 2-Butanone (MEK) ug/m3 4.2 0.53 1.41 02/14/23 17:55 78-93-3 Carbon disulfide < 0.33 ug/m3 0.890.33 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 ug/m3 0.76 Chloroethane < 0.29 0.29 1.41 02/14/23 17:55 75-00-3 0.48J ug/m3 Chloroform 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 <0.51 0.51 02/14/23 17:55 124-48-1 Dibromochloromethane ug/m3 2.4 1.41 02/14/23 17:55 106-93-4 <0.44 1,2-Dibromoethane (EDB) ug/m3 1.1 0.44 1.41 1,2-Dichlorobenzene <1.2 ug/m3 4.3 1.2 1.41 02/14/23 17:55 95-50-1 1,3-Dichlorobenzene ug/m3 4.3 1.2 02/14/23 17:55 541-73-1 <1.2 1.41 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 ug/m3 02/14/23 17:55 75-35-4 1,1-Dichloroethene <0.23 1.1 0.23 1.41 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 ug/m3 10061-02-6 trans-1,3-Dichloropropene <1.1 3.3 1.1 1.41 02/14/23 17:55 Dichlorotetrafluoroethane <0.34 ug/m3 2.0 0.34 76-14-2 1.41 02/14/23 17:55 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 ug/m3 0.33 1.41 110-54-3 n-Hexane 1.8 1.0 02/14/23 17:55 < 0.97 ug/m3 5.9 0.97 1.41 2-Hexanone 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 02/14/23 17:55 108-10-1 4-Methyl-2-pentanone (MIBK) < 0.76 ug/m3 5.9 0.76 1.41 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

REPORT OF LABORATORY ANALYSIS

0.50

1.41

1.2

<0.50

ug/m3

02/14/23 17:55 115-07-1



Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

Sample: IA-013123-TP-006	Lab ID:	10641962003	Collecte	d: 01/31/2	3 11:55	Received: 02	2/06/23 12:37 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua
ΓΟ15 MSV AIR	Analytical	Method: TO-15							
		lytical Services		lis					
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		
Tetrachloroethene	<0.35	ug/m3	0.97	0.40	1.41		02/14/23 17:55		
Tetrahydrofuran	<0.26	ug/m3	0.85	0.26	1.41		02/14/23 17:55	_	
ΓHC as Gas	<149	ug/m3	298	149	1.41		02/14/23 17:55	109-99-9	
Toluene	3.1	ug/m3	1.1	0.23	1.41		02/14/23 17:55	100 00 2	
		ug/m3	10.6	8.1	1.41		02/14/23 17:55		
I,2,4-Trichlorobenzene	<o.1 1.1J</o.1 	•	1.6	0.26	1.41		02/14/23 17:55		
I,1,1-Trichloroethane	<0.36	ug/m3 ug/m3	0.78	0.26	1.41		02/14/23 17:55		
I,1,2-Trichloroethane	28.2	ū							
Frichloroethene		ug/m3	0.77	0.34	1.41		02/14/23 17:55		
Frichlorofluoromethane	1.1J	ug/m3	1.6	0.28	1.41		02/14/23 17:55		
1,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.2	0.32	1.41		02/14/23 17:55		
1,2,4-Trimethylbenzene	0.55J	ug/m3	1.4	0.49	1.41		02/14/23 17:55		
1,3,5-Trimethylbenzene	<0.39	ug/m3	1.4	0.39	1.41		02/14/23 17:55		
/inyl acetate	<0.25	ug/m3	1.0	0.25	1.41		02/14/23 17:55		
/inyl chloride	<0.14	ug/m3	0.37	0.14	1.41		02/14/23 17:55		
n&p-Xylene	1.8J	ug/m3	2.5	0.69	1.41		02/14/23 17:55		
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	Collecte	d: 01/31/2:	3 11:56	Received: 02	2/06/23 12:37 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua
		Units — — — — Method: TO-15		MDL	DF	Prepared	Analyzed	CAS No.	Qua
	Analytical				DF	Prepared	Analyzed	CAS No.	Qua
TO15 MSV AIR	Analytical Pace Anal	Method: TO-15 lytical Services	- Minneapo	lis		Prepared	Analyzed 02/14/23 18:34	-	Qua
TO15 MSV AIR Acetone	Analytical Pace Anal	Method: TO-15 lytical Services ug/m3	- Minneapo 22.3	lis 8.3	3.7	Prepared	02/14/23 18:34	67-64-1	Qua
TO15 MSV AIR Acetone Benzene	Analytical Pace Anal	Method: TO-15 lytical Services ug/m3 ug/m3	- Minneapo	lis		Prepared		67-64-1 71-43-2	Qua
TO15 MSV AIR Acetone Benzene Benzyl chloride	Analytical Pace Anal 25.9 2.7 <2.8	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2	lis 8.3 0.41	3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7	Qua
FO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0	8.3 0.41 2.8 1.2	3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4	Qua
CO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4	8.3 0.41 2.8 1.2 2.9	3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qua
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9	8.3 0.41 2.8 1.2 2.9 1.1	3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qua
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7	8.3 0.41 2.8 1.2 2.9 1.1 0.41	3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qua
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane I,3-Butadiene 2-Butanone (MEK)	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7	8.3 0.41 2.8 1.2 2.9 1.1 0.41	3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qua
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane Bromomethane Bromomethane B.3-Butadiene C-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	Qua
Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane I,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Chlorobenzene Chloroethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51 <0.76	Method: TO-15 lytical Services ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5 2.0	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51 0.76	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Chlorobenzene Chloroform	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51 <0.76 519	Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5 2.0 1.8	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51 0.76	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51 <0.76 519 1.9	Method: TO-15 lytical Services ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5 2.0 1.8 1.6	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51 0.76 0.50 0.33	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51 <0.76 519 1.9 <0.50	Method: TO-15 lytical Services ug/m3 ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5 2.0 1.8 1.6 6.5	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51 0.76 0.50 0.33 0.50	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	
Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Analytical Pace Anal 25.9 2.7 <2.8 95.5 <2.9 <1.1 <0.41 2.6J 12.3 123 <0.51 <0.76 519 1.9	Method: TO-15 lytical Services ug/m3	- Minneapo 22.3 1.2 9.7 5.0 19.4 2.9 1.7 11.1 2.3 11.8 3.5 2.0 1.8 1.6	8.3 0.41 2.8 1.2 2.9 1.1 0.41 1.4 0.87 1.6 0.51 0.76 0.50 0.33	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	Prepared	02/14/23 18:34 02/14/23 18:34	67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	



Collected: 01/31/23 11:56 Received: 02/06/23 12:37 Matrix: Air

Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

Sample: SG-013123-TP-007

Lab ID: 10641962004

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Ana	ytical Service	es - Minneapo	lis					
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		
Dichlorodifluoromethane	<1.9	ug/m3	3.7	1.9	3.7		02/14/23 18:34		
1,1-Dichloroethane	10.9	ug/m3	3.0	0.40	3.7		02/14/23 18:34		
1,2-Dichloroethane	<0.47	ug/m3	3.0	0.47	3.7		02/14/23 18:34		
1,1-Dichloroethene	37.1	ug/m3	3.0	0.61	3.7		02/14/23 18:34		
cis-1,2-Dichloroethene	76.9	ug/m3	3.0	0.79	3.7		02/14/23 18:34		
trans-1,2-Dichloroethene	2.9J	ug/m3	3.0	1.5	3.7		02/14/23 18:34		
1,2-Dichloropropane	<0.74	ug/m3	3.5	0.74	3.7		02/14/23 18:34		
cis-1,3-Dichloropropene	<2.4	ug/m3	8.5	2.4	3.7		02/14/23 18:34		
· ·	<2.4 <2.9	ug/m3	8.5	2.4	3.7		02/14/23 18:34		
trans-1,3-Dichloropropene		Ū			3.7 3.7				
Dichlorotetrafluoroethane Ethanol	<0.90 17.8	ug/m3 ug/m3	5.3 7.1	0.90 3.3	3.7 3.7		02/14/23 18:34 02/14/23 18:34		
		-							
Ethyl acetate	<0.59	ug/m3	2.7	0.59	3.7		02/14/23 18:34		
Ethylbenzene	<0.66	ug/m3	3.3	0.66	3.7		02/14/23 18:34		
4-Ethyltoluene	<1.5	ug/m3	9.2	1.5	3.7		02/14/23 18:34		
n-Heptane	8.9	ug/m3	3.1	0.48	3.7		02/14/23 18:34		
Hexachloro-1,3-butadiene	<6.5	ug/m3	20.1	6.5	3.7		02/14/23 18:34		
n-Hexane	22.2	ug/m3	2.6	0.86	3.7		02/14/23 18:34		
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		
1,1,1-Trichloroethane	152	ug/m3	4.1	0.67	3.7		02/14/23 18:34		
1,1,2-Trichloroethane	<0.95	ug/m3	2.1	0.95	3.7		02/14/23 18:34		
Trichloroethene	4030	ug/m3	80.7	35.3	147.8		02/16/23 16:39		
Trichlorofluoromethane	0.92J	ug/m3	4.2	0.75	3.7		02/14/23 18:34		
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	5.8	0.73	3.7		02/14/23 18:34		
1,2,4-Trimethylbenzene	<1.3	ug/m3	3.7	1.3	3.7		02/14/23 18:34		
• •	<1.3 <1.0	ug/m3	3.7	1.0	3.7		02/14/23 18:34		
1,3,5-Trimethylbenzene		Ü							
Vinyl acetate	<0.65	ug/m3	2.6	0.65	3.7		02/14/23 18:34		
Vinyl chloride	7.7	ug/m3	0.96	0.35	3.7		02/14/23 18:34		
m&p-Xylene	<1.8	ug/m3	6.5	1.8	3.7		02/14/23 18:34		
o-Xylene	<0.66	ug/m3	3.3	0.66	3.7		02/14/23 18:34	95-47-6	



Project: 12584838-03 CMW

Pace Project No.: 10641962

Propylene

Date: 02/20/2023 01:53 PM

Sample: IA-013123-TP-008 Lab ID: 10641962005 Collected: 01/31/23 11:54 Received: 02/06/23 12:37 Matrix: Air PQL DF **Parameters** Results Units MDI Prepared CAS No. Analyzed 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 02/14/23 19:09 74-83-9 Bromomethane < 0.43 ug/m3 1.2 0.43 1.46 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 0.20 1.46 02/14/23 19:09 108-90-7 1.4 ug/m3 0.78 Chloroethane < 0.30 0.30 1.46 02/14/23 19:09 75-00-3 ug/m3 Chloroform 0.54J 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 1.46 02/14/23 19:09 124-48-1 ug/m3 2.5 0.53 0.45 02/14/23 19:09 106-93-4 1,2-Dibromoethane (EDB) < 0.45 ug/m3 1.1 1.46 02/14/23 19:09 95-50-1 1,2-Dichlorobenzene ug/m3 4.5 1.3 1.46 <1.3 1,3-Dichlorobenzene ug/m3 4.5 1.2 1.46 02/14/23 19:09 541-73-1 <1.2 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 0.16 1.46 02/14/23 19:09 75-34-3 1.2 1,2-Dichloroethane <0.19 ug/m3 1.2 0.19 1.46 02/14/23 19:09 107-06-2 ug/m3 1.46 1,1-Dichloroethene <0.24 1.2 0.24 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 34 0.95 1.46 02/14/23 19:09 10061-01-5 ug/m3 10061-02-6 trans-1,3-Dichloropropene <1.1 3 4 1.1 1.46 02/14/23 19:09 Dichlorotetrafluoroethane <0.35 ug/m3 0.35 76-14-2 2.1 1.46 02/14/23 19:09 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 ug/m3 0.34 1.46 110-54-3 n-Hexane 2.5 1.0 02/14/23 19:09 ug/m3 2-Hexanone <1.0 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 98-82-8 02/14/23 19:09 Methylene Chloride 0.23J ug/m3 5.2 0.18 1.46 02/14/23 19:09 75-09-2 02/14/23 19:09 108-10-1 4-Methyl-2-pentanone (MIBK) <0.79 ug/m3 6.1 0.79 1.46 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

REPORT OF LABORATORY ANALYSIS

0.52

1.46

1.3

<0.52

ug/m3

02/14/23 19:09 115-07-1



Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

Received: 02/06/23 12:37 Sample: IA-013123-TP-008 Collected: 01/31/23 11:54 Lab ID: 10641962005 Matrix: Air Units PQL MDL DF **Parameters** Results Prepared CAS No. Analyzed 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 0.42 02/14/23 19:09 79-34-5 2.0 1.46 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 02/14/23 19:09 71-55-6 1,1,1-Trichloroethane 1.1J ug/m3 1.6 0.26 1.46 02/14/23 19:09 79-00-5 <0.38 ug/m3 0.81 1,1,2-Trichloroethane 0.38 1.46 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 02/14/23 19:09 76-13-1 1.46 1,2,4-Trimethylbenzene 0.93J ug/m3 0.51 02/14/23 19:09 95-63-6 1.5 1.46 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 0.72 02/14/23 19:09 179601-23-1 2.6 1.46 o-Xylene 0.96J 1.3 02/14/23 19:09 95-47-6

0.26

1.46

ug/m3



Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

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 Result 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-Trichloroethane ug/m3 <0.23 1.6 0.23 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
1,1,2,2-Tetrachloroethane ug/m3 <0.29
1,1,2-Trichloroethane ug/m3 <0.26 0.56 0.26 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.



Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

METHOD BLANK: 4576605 Matrix: Air

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

_		Blank	Reporting			
Parameter	Units	Result	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	
sopropylbenzene (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	
rans-1,2-Dichloroethene	ug/m3	< 0.42	0.81	0.42	02/14/23 10:28	
rans-1,3-Dichloropropene	ug/m3	<0.78	2.3	0.78	02/14/23 10:28	
Frichloroethene	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	
/inyl 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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3		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	

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.



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LABORATORY CONTROL SAMPLE:	4576606	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	
1-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	
sis-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	
sopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
n&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	
ı-Hexane	ug/m3	37.7	31.1	82	70-137	
Naphthalene	ug/m3	63.9	60.7	95	70-130	
-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	
etrachloroethene	ug/m3	72	69.2	96	70-130	
etrahydrofuran	ug/m3	31.3	26.8	85	70-139	
HC as Gas	ug/m3	5050	5700	113	70-139	
oluene	ug/m3	40.2	36.1	90	70-130	
rans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
rans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-132	
richloroethene	ug/m3	57.2	56.8	99	70-130	
richlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
/inyl acetate	ug/m3	38.7	46.2 40.9	106	70-131	
/inyl acetate /inyl chloride	ug/m3	36. <i>1</i> 27.2	23.8	87	64-136	

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.



Project: 12584838-03 CMW

Pace Project No.: 10641962

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SAMPLE DUPLICATE: 4577302		10641964001	Dun		Max	
Parameter	Units	Result	Dup Result	RPD	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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Project: 12584838-03 CMW

Pace Project No.: 10641962

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		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
n-Heptane	 ug/m3		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	
ΓHC as Gas	ug/m3	159J	480		25	
Toluene	ug/m3	5.8	5.6	3	25	
rans-1,2-Dichloroethene	ug/m3	< 0.62	< 0.62		25	
rans-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	
/inyl acetate	ug/m3	<0.26	<0.26		25	
Vinyl chloride	ug/m3	<0.14	< 0.14		25	

SAMPLE DUPLICATE: 4577303						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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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Date: 02/20/2023 01:53 PM

		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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	
sopropylbenzene (Cumene)	ug/m3	<0.82	< 0.82		25	
n&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	
oluene	ug/m3	1.3	1.4	4	25	
rans-1,2-Dichloroethene	ug/m3	< 0.59	< 0.59		25	
rans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Frichloroethene	ug/m3	3.7	3.9	5	25	
Frichlorofluoromethane	ug/m3	0.98J	1.0J		25	
/inyl acetate	ug/m3	<0.25	< 0.25		25	
/inyl 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.



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

Date: 02/20/2023 01:53 PM

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 CMW

Pace Project No.: 10641962

Date: 02/20/2023 01:53 PM

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		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Samples Intact Y/N Y/N Y/N SAMPLE CONDITIONS Clean Air Act RCRA T Other Pace Lab ID g/m³ mg/m³ PBV PPMV ₹ Sealed Cooler N/A N/A N/A Custody 400 600 500 500 100 Page: eol ug/m³_ PPBV_ Other 0)/A N/A N/A N/A Received on F Emissions ☐ Voluntary Clean Up ☐ Dry Clean ☐ O° ni qmeT 34 ≥ 58341 Program 12:3 TIME L UST | Superfund XX 2 x y Location of Sampling by State Report Level 2-6-23 DATE Method: DATE Signed (MM / DD / YY) 3 7 ACCEPTED BY / AFFILIATION the Flow Control Number 9 0 0 Janes J M 0 4 5 0 Can Number Summa 20 0 N 2 3 M 25 SAMPLER NAME AND SIGNATURE (Final Field - in Hg) 8:4 7. Canister Pressure TIME 3 R (Initial Field - in Hg) Canister Pressure Pace Project Manager/Sales Rep. 2/2/23 1/20/13 124 1/3/13 1156 DATE 1/20/23 1213 1/21/02 1155 1/20/25 1216 1/21/15 11/05/1 RINT Name of SAMPLER: 120 [23 1712 1/3/13 1159 GNATURE of SAMPLER TIME Pace Quote Reference: (30/23 123 1/3/23 Invoice Information: COLLECTED DATE Company Name: OH? Pace Profile #: RELINQUISHED BY / AFFILIATION Section C Attention: Address: TIME DATE Kyle Ambege C PID Reading (Client only) Report To: M. he M.C. 660 279 In sur Required Project Information: MEDIA CODE MEDIA

Tedlar Bag
1 Liter Summa Can 1LC
Low Volume Puff
High Volume Puff
Hygh Volume Puff
PW10 Purchase Order No.: Project Number: Project Name: Section B 10#:10641962 Z4-013123-TD-005 7000 TA-013123-TP-006 8-013123-78-007 700-07 6520 Consorte Orbe 'Section D Required Client Information Requested Due Date/TAT: Sharles **AIR SAMPLE ID** Sample IDs MUST BE UNIQUE -013123-521810 in Renapoli Required Client Information: Company: CHO 4.A. Section A Address: # MHTI

schnical Phone: 612.607.6386

	1	
,	Dann	
/-	Pace*	
1	ANALYTICAL SERVICE	

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:	GHY).		Project	t#:	WU# 1	WO41	962	
Courier: FedEx	UPS	<u> </u>	USPS	Clie	nt .		PM: CT1	Due D	ate: 02/	20/23
Pace	☐ Spee	eDee [Commercial	No	-		CLIENT: CRA	_INDY		
Tracking Number: Custody Seal on Cooler/Box F	Proceed?	Yes	Ø\$No		See Exception	-				
Seals Intact? Yes	□ No	☐ Yes	KINO			A				
	Bubble Wrap	Bubble Ba	ags 🔯	Foam Other:			Date &	nitials of Person		_
	None	☐ Tin Can	白	Other:			Exar	nitials of Person nining Contents:	2-7-2	SMI
			7.					Comments:		
Chain of Custody Present?			Yes	No 🗌 No		1.	*			
Chain of Custody Filled Out?			Yes	. No		2.				
Chain of Custody Relinquished	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Yes	□ No		3.				
Sampler Name and/or Signatu			∑ Yes	□ No	□ N/A	4.				
Samples Arrived within Hold T			Yes Yes	□ No		5.				
Short Hold Time Analysis (<72			Yes	No.		6.				
Rush Turn Around Time Requ	estear		☐ Yes	X No □ No		7.				
Sufficient Volume? Correct Containers Used?						9.				
Correct Containers Osed? (Tediar bags not acceptable c	ontainer for TO-1	5 or APH)	X Yes	☐ No	*	٦.				
Pace Containers Used?			₩ Yes	□No						
Containers Intact?						10.				
(visual inspection/no leaks w	hen pressurized)	<u> </u>	∤ Yes	☐ No		1				- 1
Media: (Air Can) Airt						11.	Individually Certified C	ans? Y (N ()	st which samples)
Is sufficient information availa		imples to the COC?	Yes	☐ No		12.				
Do cans need to be pressurize			XVes.	□No	=	13.				
(DO NOT PRESSURIZE 3C or A	SIM 1946!!!)					J				f w
		Gauge #i 🏻	10AID26 🔲 10	DAIR34 □ 10	AIDSE MINAIDIZ	П1	IOAIDAT THOAIDAG		i	
	Can	Gauge #:	10AIR26 10	<i>и</i> плэ4 <u> </u>	AIR35 10AIR17	<u></u>	LOAIR47 10AIR48	isters		
	Can	Flow	Initial	Final			Car	Flow	Initial	Final
Sample Number	Can ID	Controller	Pressure	Pressure	Sample Nu	mber	Can ID	Controller	Pressure	Pressure
004	3589	2097	-1	+5						
005	2809		-2	- 1						-
		2084	-1.5							-
006	2114									
067	3425	363	-24.5							
00%	3646	2164	-2.5					3		
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		3 8		***************************************						<u> </u>
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		<u> </u>			I					
CLIENT NOTIFICATION/RESOL					Pa		Field	Data Required?	☐ Yes	☐ No
Person Contacted					Date/Time:					
Comments/Resolution	:							***************************************		
	Ca	rolyn	ne Ti	out			Pate: 2/8/23	`		
Project Manager Review: Note: Whenever there is a dis					C		Date:	··· ::		
		. worth Latolina con	nnuance sambles	O CODY OF THIS	corre will no cont to t	TIP NOT	to carouna DEHNR Cort	mration Office li a	OUR OF HOLD IN	

Qualtrax ID: 52723



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

Effective Date: 02/25/2022

JR Exceptions:	CONT.	Time and a second						Workorder #:						
Out of Temp Sample IDs	Container Type	# o Contai	CARE THE CARE TO SERVICE STATE OF THE SERVICE STATE		FIM	Notified?	iYes:							
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	p	<u>⊦</u> H Adjustn	nent Log f	or Preserve	ed Sample									
	Type of	pH Upon	Date	Time	Amount Added	Lot#	pН	in Compliance	æ					
Sample ID	Preserve	Receipt	Adjusted	Adjusted	(mL)	Added	After	after addition						
								Yes N	10					
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								Yes N	0					
		i						Yes N	0.					
	•			<u> </u>			/							
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 That

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



(612)607-1700



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 #: Al-03086* Louisiana DW Certification #: MN00064 Maine Certification #: MN00064* Maryland Certification #: 322

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 #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137

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 (*).





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



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



PROJECT NARRATIVE

Project: 12584838-03 Pace Project No.: 10641967

Method: TO-15

Description:TO15 MSV AIRClient:GHD Services_AIRDate: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.



Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

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.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Anal	ytical Service	s - Minneapo	lis					
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		
Benzyl chloride	<1.1	ug/m3	3.7	1.1	1.39		02/14/23 20:52		
Bromodichloromethane	<0.44	ug/m3	1.9	0.44	1.39		02/14/23 20:52		
Bromoform	<1.1	ug/m3	7.3	1.1	1.39		02/14/23 20:52		
Bromomethane	<0.41	ug/m3	1.1	0.41	1.39		02/14/23 20:52		
1,3-Butadiene	<0.15	ug/m3	0.63	0.15	1.39		02/14/23 20:52		
2-Butanone (MEK)	<0.52	ug/m3	4.2	0.52	1.39		02/14/23 20:52		
Carbon disulfide	<0.33	ug/m3	0.88	0.33	1.39		02/14/23 20:52		
Carbon tetrachloride	<0.58	ug/m3	4.4	0.58	1.39		02/14/23 20:52		
Chlorobenzene	<0.19	ug/m3	1.3	0.30	1.39		02/14/23 20:52		
Chloroethane	<0.19	ug/m3	0.75	0.19	1.39		02/14/23 20:52		
Chloroform	<0.28 <0.19	Ū	0.75	0.28	1.39		02/14/23 20:52		
		ug/m3							
Chloromethane	0.93	ug/m3	0.58	0.12	1.39		02/14/23 20:52		
Cyclohexane	<0.19	ug/m3	2.4	0.19	1.39		02/14/23 20:52		
Dibromochloromethane	<0.50	ug/m3	2.4	0.50	1.39		02/14/23 20:52		
I,2-Dibromoethane (EDB)	<0.43	ug/m3	1.1	0.43	1.39		02/14/23 20:52		
,2-Dichlorobenzene	<1.2	ug/m3	4.3	1.2	1.39		02/14/23 20:52		
,3-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 20:52		
,4-Dichlorobenzene	<1.1	ug/m3	4.3	1.1	1.39		02/14/23 20:52		
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.71	1.39		02/14/23 20:52		
,1-Dichloroethane	0.17J	ug/m3	1.1	0.15	1.39		02/14/23 20:52		
,2-Dichloroethane	<0.18	ug/m3	1.1	0.18	1.39		02/14/23 20:52		
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	
rans-1,2-Dichloroethene	<0.58	ug/m3	1.1	0.58	1.39		02/14/23 20:52	156-60-5	
,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	
rans-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	
1-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	
sopropylbenzene (Cumene)	<0.81	ug/m3	3.5	0.81	1.39		02/14/23 20:52		
Methylene Chloride	0.25J	ug/m3	4.9	0.17	1.39		02/14/23 20:52		
I-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	5.8	0.75	1.39		02/14/23 20:52		
Methyl-tert-butyl ether	<0.35	ug/m3	5.1	0.35	1.39		02/14/23 20:52		
Naphthalene	<2.9	ug/m3	3.7	2.9	1.39		02/14/23 20:52		
2-Propanol	6.5	ug/m3	3.5	1.3	1.39		02/14/23 20:52		
Propylene	<0.50	ug/m3	1.2	0.50	1.39		02/14/23 20:52		

REPORT OF LABORATORY ANALYSIS

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Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

Sample: AC-013123-TP-011	Lab ID:	10641967001	Collecte	d: 01/31/2	3 13:00	Received: 02	2/06/23 12:37 Ma	06/23 12:37 Matrix: Air			
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qua		
TO15 MSV AIR	Analytical	Method: TO-15									
		ytical Services		olis							
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				
Tetrachloroethene	<0.34	ug/m3	0.96	0.34	1.39		02/14/23 20:52				
Tetrahydrofuran	<0.26	ug/m3	0.83	0.26	1.39		02/14/23 20:52	_			
THC as Gas	<147	ug/m3	293	147	1.39		02/14/23 20:52	100 00 0			
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				
1,1,1-Trichloroethane	0.53J	ug/m3	1.5	0.25	1.39		02/14/23 20:52				
1,1,2-Trichloroethane	< 0.36	ug/m3	0.77	0.36	1.39		02/14/23 20:52				
Trichloroethene	39.2	ug/m3	0.76	0.33	1.39		02/14/23 20:52				
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.33	1.39		02/14/23 20:52				
1,1,2-Trichlorotrifluoroethane	0.43J	ug/m3	2.2	0.20	1.39		02/14/23 20:52				
1,2,4-Trimethylbenzene	<0.49	ug/m3	1.4	0.49	1.39		02/14/23 20:52				
1,3,5-Trimethylbenzene	<0.38	ug/m3	1.4	0.38	1.39		02/14/23 20:52				
Vinyl acetate	<0.24	ug/m3	1.0	0.30	1.39		02/14/23 20:52				
Vinyl chloride	<0.13	ug/m3	0.36	0.13	1.39		02/14/23 20:52				
m&p-Xylene	0.72J	ug/m3	2.5	0.13	1.39		02/14/23 20:52				
o-Xylene	<0.25	ug/m3	1.2	0.00	1.39		02/14/23 20:52				
Sample: IA-013123-TP-012	Lab ID:	10641967002	Collecte	d: 01/31/2	3 12:59	Received: 02	2/06/23 12:37 Ma	atrix: Air			
Sample: IA-013123-TP-012 Parameters	Lab ID:	10641967002 Units	Collecte	d: 01/31/2	3 12:59 DF	Received: 02 Prepared	2/06/23 12:37 Ma	atrix: Air CAS No.	Qua		
-	Results		PQL _						Qua		
Parameters	Results Analytical	Units	PQL -	MDL					Qua		
Parameters TO15 MSV AIR	Results Analytical Pace Anal	Units Method: TO-15 ytical Services	PQL -	MDL	DF		Analyzed	CAS No.	Qua		
Parameters	Results Analytical Pace Anal	Units Method: TO-15 ytical Services	PQL - Minneapo	MDL blis 3.3	DF 1.46		Analyzed 02/14/23 21:27	CAS No.	Qua		
Parameters TO15 MSV AIR Acetone Benzene	Analytical Pace Anal 15.5 2.2	Units Method: TO-15 ytical Services ug/m3 ug/m3	PQL - Minneapo 8.8 0.47	MDL blis 3.3 0.16	DF 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride	Analytical Pace Anal 15.5 2.2 <1.1	Units Method: TO-15 ytical Services ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8	MDL olis 3.3 0.16 1.1	1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47	Units Method: TO-15 ytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0	MDL 3.3 0.16 1.1 0.47	1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1	Units Method: TO-15 ytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7	MDL 3.3 0.16 1.1 0.47 1.1	1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43	Units Method: TO-15 ytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2	MDL 3.3 0.16 1.1 0.47 1.1 0.43	1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16	Units Method: TO-15 ytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16	1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J	Units Method: TO-15 ytical Services ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34	Units Method: TO-15 ytical Services ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	•		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J	Units Method: TO-15 ytical Services ug/m3	PQL 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	Qua		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20	Units Method: TO-15 ytical Services ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	•		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20 <0.30	Units Method: TO-15 ytical Services - ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4 0.78	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20 0.30	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	•		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20 <0.30 0.31J	Units Method: TO-15 ytical Services ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4 0.78 0.72	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20 0.30 0.20	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3			
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20 <0.30 0.31J 1.9	Units Method: TO-15 ytical Services ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4 0.78 0.72 0.61	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20 0.30 0.20 0.13	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3			
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20 <0.30 0.31J 1.9 <0.20	Units Method: TO-15 ytical Services - ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4 0.78 0.72 0.61 2.6	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20 0.30 0.20 0.13 0.20	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	•		
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Analytical Pace Anal 15.5 2.2 <1.1 <0.47 <1.1 <0.43 <0.16 2.1J <0.34 2.6J <0.20 <0.30 0.31J 1.9	Units Method: TO-15 ytical Services ug/m3 ug/m3	PQL - Minneapo 8.8 0.47 3.8 2.0 7.7 1.2 0.66 4.4 0.92 4.7 1.4 0.78 0.72 0.61	MDL 3.3 0.16 1.1 0.47 1.1 0.43 0.16 0.55 0.34 0.61 0.20 0.30 0.20 0.13	1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46		Analyzed 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27 02/14/23 21:27	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	•		

REPORT OF LABORATORY ANALYSIS

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Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

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 Anal	ytical Service	s - Minneapo	lis					
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	-	
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.75	1.46		02/14/23 21:27		
1.1-Dichloroethane	0.23J	ug/m3	1.2	0.16	1.46		02/14/23 21:27		
1,2-Dichloroethane	<0.19	ug/m3	1.2	0.19	1.46		02/14/23 21:27		
1,1-Dichloroethene	0.69J	ug/m3	1.2	0.13	1.46		02/14/23 21:27		
cis-1,2-Dichloroethene	0.33J	ug/m3	1.2	0.24	1.46		02/14/23 21:27		
trans-1,2-Dichloroethene	<0.61	ug/m3	1.2	0.61	1.46		02/14/23 21:27		
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.46		02/14/23 21:27		
cis-1,3-Dichloropropene	<0.95	ug/m3	3.4	0.25	1.46		02/14/23 21:27		
	<0.93 <1.1	ug/m3	3.4	1.1	1.46		02/14/23 21:27		
trans-1,3-Dichloropropene		Ü							
Dichlorotetrafluoroethane	<0.35	ug/m3	2.1	0.35	1.46		02/14/23 21:27 02/14/23 21:27		
Ethanol	102	ug/m3	2.8	1.3	1.46				
Ethyl acetate	0.77J	ug/m3	1.1	0.23	1.46		02/14/23 21:27		
Ethylbenzene	0.57J	ug/m3	1.3	0.26	1.46		02/14/23 21:27		
4-Ethyltoluene	<0.59	ug/m3	3.6	0.59	1.46		02/14/23 21:27		
n-Heptane	1.0J	ug/m3	1.2	0.19	1.46		02/14/23 21:27		
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.9	2.6	1.46		02/14/23 21:27		
n-Hexane	1.2	ug/m3	1.0	0.34	1.46		02/14/23 21:27		
2-Hexanone	<1.0	ug/m3	6.1	1.0	1.46		02/14/23 21:27		
Isopropylbenzene (Cumene)	<0.85	ug/m3	3.6	0.85	1.46		02/14/23 21:27		
Methylene Chloride	0.29J	ug/m3	5.2	0.18	1.46		02/14/23 21:27		
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.1	0.79	1.46		02/14/23 21:27		
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		
Trichlorofluoromethane	1.2J	ug/m3	1.7	0.29	1.46		02/14/23 21:27		
1,1,2-Trichlorotrifluoroethane	0.47J	ug/m3	2.3	0.33	1.46		02/14/23 21:27		
1,2,4-Trimethylbenzene	<0.51	ug/m3	1.5	0.51	1.46		02/14/23 21:27		
1,3,5-Trimethylbenzene	<0.40	ug/m3	1.5	0.40	1.46		02/14/23 21:27		
Vinyl acetate	<0.26	ug/m3	1.0	0.26	1.46		02/14/23 21:27		
Vinyl acctate Vinyl chloride	<0.14	ug/m3	0.38	0.20	1.46		02/14/23 21:27		
m&p-Xylene	2.0J	ug/m3	2.6	0.72	1.46		02/14/23 21:27		
o-Xylene	0.55J	ug/m3	1.3	0.72	1.46		02/14/23 21:27		



Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

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

		Blank	Reporting			
Parameter	Units	Result	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.



Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3		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	

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.



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ABORATORY CONTROL SAMPLE:	4576606					
Doromotor	Llaita	Spike Conc.	LCS	LCS % Rec	% Rec Limits	Qualifiers
Parameter	Units		Result			Qualifiers
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
I-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	
romodichloromethane	ug/m3	71.5	68.0	95	70-132	
romoform	ug/m3	110	124	112	70-143	
Bromomethane	ug/m3	41.4	35.4	86	70-133	
arbon disulfide	ug/m3	33	30.2	92	70-131	
arbon 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	
is-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
is-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
Syclohexane	ug/m3	36.4	30.8	85	70-134	
ibromochloromethane	ug/m3	90.6	91.7	101	70-134	
richlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
richlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
thanol	ug/m3	113	87.9	78	65-130	
thyl acetate	ug/m3	38.4	39.0	101	70-134	
thylbenzene	ug/m3	46.2	42.9	93	70-133	
lexachloro-1,3-butadiene	ug/m3	130	133	102	70-141	
sopropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
n&p-Xylene	ug/m3	92.4	82.1	89	70-130	
lethyl-tert-butyl ether	ug/m3	38.3	33.1	86	70-132	
Methylene Chloride	ug/m3	36.8	34.2	93	70-134	
-Heptane	ug/m3	43.5	35.0	81	69-140	
i-Hexane	ug/m3	37.7	31.1	82	70-137	
laphthalene	ug/m3	63.9	60.7	95	70-130	
-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	
etrachloroethene	ug/m3	72	69.2	96	70-139	
etrahydrofuran	ug/m3	31.3	26.8	85	70-139	
HC as Gas	ug/m3	5050	5700	113	70-136	
oluene	ug/m3	40.2	36.1	90	70-132	
ans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
ans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
richloroethene	ug/m3	57.2	56.8	99	70-132	
richlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
inyl acetate	ug/m3	38.7	40.9	106	70-131	
/inyl chloride	ug/m3	27.2	23.8	87	64-136	

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.



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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	
	~g/1110	0.40J	٦٥.٥١		_0	

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SAMPLE DUPLICATE: 4577302						
		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
n-Heptane	 ug/m3		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						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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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SAMPLE DUPLICATE: 4577303						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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.



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

Date: 02/20/2023 01:52 PM

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





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-03 Pace Project No.: 10641967

Date: 02/20/2023 01:52 PM

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		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company:	Report To:		Att	Invoice information. Attention:	on:										1
												Program			
Address: 65 to Co rosate Ord	Copy To:		<u>8</u>	Company Name:						Ĺ	UST Superfund	上	Emissions	Clean Air Act	Act
Talienes			Ad	Address:					N MARKAN MARKAL MARKANIN MORNEY JANGAR ARKAN MARKAN MORNA MARKA	<u></u>	Voluntary Clean Up	p ☐ Dry Clean ☐	All the state of	RCRA L	Other
1	Purchase Order No.:		Pa	Pace Quote Reference	erence:					-	90	6	Repo	ting Units	
Phone: Fax:	Project Name:		Pa	ce Project Ma	Pace Project Manager/Sales Rep.	Sep.				Sampling by	Sampling by State	7	A Page	PPBV PPMV	11
Requested Due Date/TAT:	Project Number: 1255	18886	20	Pace Profile #:				***************************************		Repor	Report Level II.	III. IV.			ŀ
E - III		PID Reading (Client only)	STAR	COLLECTED	COMPOSITE.	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Me	(%) ses best col	HAMIN'O	1817 HOUSE \$1004 915	Pare lab II	9
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chnical Phone: 612.607.6386

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1	ACCOMMON	menium.

DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt

(SCUR) - Air

Effective Date: 02/25/2022 WO#:10641967 Air Sample Condition Upon **Client Name:** Due Date: 02/20/23 TUPS USPS Client CLIENT: CRA_INDY ☐ Pace ☐ SpeeDee Commercial **Tracking Number:** See Exception Custody Seal on Cooler/Box Present? ☐ Yes No Seals Intact? ☐ No **Packing Material:** ☐ Bubble Wrap ■ Bubble Bags Date & Initials of Person Examining Contents: 2-7-23 MJ ■ None ☐ Tin Can Comments: Chain of Custody Present? Yes ☐ No Chain of Custody Filled Out? Yes Yes Yes ☐ No Chain of Custody Relinquished? ☐ No 3. To-15 on tags, not on COC Sampler Name and/or Signature on COC? ☐ No □ N/A X Yes Samples Arrived within Hold Time? ☐ No 5. No No Short Hold Time Analysis (<72 hr)? Yes 6. Yes **Rush Turn Around Time Requested?** 7. Sufficient Volume? X Yes ☐ No 8 **Correct Containers Used?** 9. X Yes ☐ No (Tedlar bags not acceptable container for TO-15 or APH) ✓ Yes -Pace Containers Used? ☐ No Containers Intact? 10. Yes Yes ☐ No (visual inspection/no leaks when pressurized) Media: Air Can) | Airbag 11. Individually Certified Cans? Y (Hst which samples) Yes Is sufficient information available to reconcile samples to the COC? ☐ No 12. Do cans need to be pressurized? 13. Wes ☐ No (DO NOT PRESSURIZE 3C or ASTM 1946!!!) Gauge #: 10AIR26 10AIR34 10AIR35 10AIR17 10AIR47 10AIR48 Canisters Canisters Flow Initial Final Flow Initial Final Sample Number Controller Pressure Pressure Sample Number Can ID Controller Pressure Pressure 2692 1398 +5 2153 +5 **CLIENT NOTIFICATION/RESOLUTION** ☐ No **Person Contacted:** Date/Time: Comments/Resolution: Project Manager Review: Carolynne Trout 2/8/23 Date:

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

Qualtrax ID: 52723

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 That

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



(612)607-1700



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 #: 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 #: Al-03086*

Maine Certification #: MN00064* Maryland Certification #: 322 Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Louisiana DW Certification #: MN00064

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 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*

Origon Primary Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

West Virginia DW Certification #: 9952 C

*Please Note: Applicable air certifications are denoted with

an asterisk (*).



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	



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



PROJECT NARRATIVE

Project: 12584838-04 Pace Project No.: 10641932

Method: TO-15

Description:TO15 MSV AIRClient:GHD Services_AIRDate: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.



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

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.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Anal	ytical Service	s - Minneapo	lis					
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		
Benzyl chloride	<1.5	ug/m3	5.0	1.5	1.9		02/14/23 23:05		
Bromodichloromethane	<0.61	ug/m3	2.6	0.61	1.9		02/14/23 23:05		
Bromoform	<1.5	ug/m3	10	1.5	1.9		02/14/23 23:05		
Bromomethane	<0.56	ug/m3	1.5	0.56	1.9		02/14/23 23:05		
I,3-Butadiene	<0.21	ug/m3	0.86	0.30	1.9		02/14/23 23:05		
2-Butanone (MEK)	1.3J	ug/m3	5.7	0.21	1.9		02/14/23 23:05		
Carbon disulfide	15.8	ug/m3	1.2	0.71	1.9		02/14/23 23:05		
	16.4	Ū			1.9		02/14/23 23:05		cc
Carbon tetrachloride		ug/m3	6.1	0.80	1.9		02/14/23 23:05		SS
Chlorobenzene	<0.26	ug/m3	1.8	0.26					
Chloroethane	<0.39	ug/m3	1.0	0.39	1.9		02/14/23 23:05		
Chloroform	5.3	ug/m3	0.94	0.25	1.9		02/14/23 23:05		
Chloromethane	0.80	ug/m3	0.80	0.17	1.9		02/14/23 23:05		
Cyclohexane	<0.25	ug/m3	3.3	0.25	1.9		02/14/23 23:05		
Dibromochloromethane	<0.68	ug/m3	3.3	0.68	1.9		02/14/23 23:05		
,2-Dibromoethane (EDB)	<0.59	ug/m3	1.5	0.59	1.9		02/14/23 23:05		
,2-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		02/14/23 23:05		
,3-Dichlorobenzene	<1.6	ug/m3	5.8	1.6	1.9		02/14/23 23:05		
,4-Dichlorobenzene	<1.5	ug/m3	5.8	1.5	1.9		02/14/23 23:05		
Dichlorodifluoromethane	1.7J	ug/m3	1.9	0.97	1.9		02/14/23 23:05		
,1-Dichloroethane	1.7	ug/m3	1.6	0.20	1.9		02/14/23 23:05		
,2-Dichloroethane	<0.24	ug/m3	1.6	0.24	1.9		02/14/23 23:05		
,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		
rans-1,2-Dichloroethene	<0.79	ug/m3	1.5	0.79	1.9		02/14/23 23:05	156-60-5	
,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	
rans-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	
I-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	
lexachloro-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		
2-Hexanone	<1.3	ug/m3	7.9	1.3	1.9		02/14/23 23:05	591-78-6	
sopropylbenzene (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		
I-Methyl-2-pentanone (MIBK)	<1.0	ug/m3	7.9	1.0	1.9		02/14/23 23:05		
Methyl-tert-butyl ether	<0.48	ug/m3	7.0	0.48	1.9		02/14/23 23:05		
Naphthalene	<4.0	ug/m3	5.1	4.0	1.9		02/14/23 23:05		
2-Propanol	7.4	ug/m3	4.8	1.8	1.9		02/14/23 23:05		
Propylene	1.0J	ug/m3	1.7	0.68	1.9		02/14/23 23:05		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

Sample: SG-013023-TP-001	Lab ID:	10641932001	Collected	d: 01/30/2	3 10:36	Received: 02	2/06/23 12:36 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
		lytical Services		lis					
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		
Tetrachloroethene	3.5	ug/m3	1.3	0.47	1.9		02/14/23 23:05		
Tetrahydrofuran	<0.35	ug/m3	1.1	0.35	1.9		02/14/23 23:05		
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		
1,1,1-Trichloroethane	18.8	ug/m3	2.1	0.34	1.9		02/14/23 23:05		
1,1,2-Trichloroethane	<0.49	ug/m3	1.1	0.49	1.9		02/14/23 23:05		
Trichloroethene	541	ug/m3	10.4	4.5	19		02/16/23 07:17		
Trichlorofluoromethane	1.3J	ug/m3	2.2	0.38	1.9		02/14/23 23:05		
1,1,2-Trichlorotrifluoroethane	<0.43	ug/m3	3.0	0.43	1.9		02/14/23 23:05		
1,2,4-Trimethylbenzene	0.87J	ug/m3	1.9	0.66	1.9		02/14/23 23:05		
1,3,5-Trimethylbenzene	<0.52	ug/m3	1.9	0.52	1.9		02/14/23 23:05		
Vinyl acetate	<0.33	ug/m3	1.4	0.33	1.9		02/14/23 23:05		
Vinyl chloride	1.1	ug/m3	0.49	0.18	1.9		02/14/23 23:05		
m&p-Xylene	2.4J	ug/m3	3.4	0.93	1.9		02/14/23 23:05		
o-Xylene	1.4J	ug/m3	1.7	0.34	1.9		02/14/23 23:05		
Commiss CO 042002 TD 002	Lab ID:								
Sample: SG-013023-1P-002	Lab ID:	10641932002	Collected	d: 01/30/2	3 11:17	Received: 02	2/06/23 12:36 Ma	atrix: Air	
Parameters	Results	10641932002 Units	PQL	d: 01/30/2	3 11:17 DF	Received: 02 Prepared	2/06/23 12:36 Ma	cAS No.	Qual
Parameters	Results		PQL						Qual
Parameters	Results Analytical	Units	PQL -	MDL					Qual
Parameters TO15 MSV AIR	Results Analytical	Units ————————————————————————————————————	PQL -	MDL				CAS No.	Qual
Parameters TO15 MSV AIR Acetone	Results Analytical Pace Ana	Units Method: TO-15 lytical Services ug/m3	PQL -	MDL	DF		Analyzed	CAS No.	Qual
Parameters FO15 MSV AIR Acetone Benzene	Results Analytical Pace Ana 29.0	Units Method: TO-15 lytical Services	PQL - Minneapo	MDL lis	DF 1.71		Analyzed 02/14/23 22:31	CAS No. 67-64-1 71-43-2	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride	Results Analytical Pace Ana 29.0 0.59	Units Method: TO-15 lytical Services - ug/m3 ug/m3	PQL - Minneapo 10.3 0.56	MDL lis 3.8 0.19	DF 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane	Analytical Pace Ana 29.0 0.59 <1.3	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5	MDL lis 3.8 0.19 1.3	1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform	Analytical Pace Ana 29.0 0.59 <1.3 <0.55	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3	MDL lis 3.8 0.19 1.3 0.55	1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0	MDL lis 3.8 0.19 1.3 0.55 1.3	1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19	1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3	MDL 3.8 0.19 1.3 0.55 1.3 0.51	1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J	Units Method: TO-15 lytical Services ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64	1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	Qual
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	Results Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J	Units Method: TO-15 lytical Services ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J <0.24	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5 1.6	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72 0.24	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J <0.24 <0.35	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5 1.6 0.92	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72 0.24 0.35	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J <0.24 <0.35 1.0	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5 1.6 0.92 0.85	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72 0.24 0.35 0.23	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Cyclohexane	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J <0.24 <0.35 1.0 0.87	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5 1.6 0.92 0.85 0.72	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72 0.24 0.35 0.23 0.15	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	
Parameters TO15 MSV AIR Acetone Benzene Benzyl chloride Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB)	Analytical Pace Ana 29.0 0.59 <1.3 <0.55 <1.3 <0.51 <0.19 4.6J <0.40 4.4J <0.24 <0.35 1.0 0.87 0.28J	Units Method: TO-15 lytical Services - ug/m3	PQL - Minneapo 10.3 0.56 4.5 2.3 9.0 1.3 0.77 5.1 1.1 5.5 1.6 0.92 0.85 0.72 3.0	MDL 3.8 0.19 1.3 0.55 1.3 0.51 0.19 0.64 0.40 0.72 0.24 0.35 0.23 0.15 0.23	1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71		Analyzed 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31 02/14/23 22:31	CAS No. 67-64-1 71-43-2 100-44-7 75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

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.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
	Pace Anal	ytical Service	s - Minneapo	olis					
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		
Dichlorodifluoromethane	1.7	ug/m3	1.7	0.88	1.71		02/14/23 22:31		
1,1-Dichloroethane	0.35J	ug/m3	1.4	0.18	1.71		02/14/23 22:31		
,2-Dichloroethane	<0.22	ug/m3	1.4	0.22	1.71		02/14/23 22:31		
,1-Dichloroethene	0.84J	ug/m3	1.4	0.28	1.71		02/14/23 22:31		
sis-1,2-Dichloroethene	1.9	ug/m3	1.4	0.20	1.71		02/14/23 22:31		
rans-1,2-Dichloroethene	<0.71	ug/m3	1.4	0.37	1.71		02/14/23 22:31		
1,2-Dichloropropane	<0.34	ug/m3	1.6	0.71	1.71		02/14/23 22:31		
	<0.54 <1.1	ug/m3	4.0	1.1	1.71		02/14/23 22:31		
cis-1,3-Dichloropropene		Ū			1.71		02/14/23 22:31		
rans-1,3-Dichloropropene	<1.3	ug/m3	4.0	1.3					
Dichlorotetrafluoroethane	<0.42	ug/m3	2.4	0.42	1.71		02/14/23 22:31 02/14/23 22:31		
Ethanol	4.9	ug/m3	3.3	1.5	1.71				
Ethyl acetate	<0.27	ug/m3	1.3	0.27	1.71		02/14/23 22:31		
Ethylbenzene	<0.31	ug/m3	1.5	0.31	1.71		02/14/23 22:31		
-Ethyltoluene	<0.70	ug/m3	4.3	0.70	1.71		02/14/23 22:31		
-Heptane	0.77J	ug/m3	1.4	0.22	1.71		02/14/23 22:31		
lexachloro-1,3-butadiene	<3.0	ug/m3	9.3	3.0	1.71		02/14/23 22:31		
-Hexane	0.73J	ug/m3	1.2	0.40	1.71		02/14/23 22:31		
-Hexanone	<1.2	ug/m3	7.1	1.2	1.71		02/14/23 22:31		
sopropylbenzene (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		
-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	
laphthalene	<3.6	ug/m3	4.5	3.6	1.71		02/14/23 22:31		
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	
,1,2,2-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	
,2,4-Trichlorobenzene	<9.8	ug/m3	12.9	9.8	1.71		02/14/23 22:31	120-82-1	
,1,1-Trichloroethane	2.9	ug/m3	1.9	0.31	1.71		02/14/23 22:31		
,1,2-Trichloroethane	<0.44	ug/m3	0.95	0.44	1.71		02/14/23 22:31	79-00-5	
richloroethene	131	ug/m3	0.93	0.41	1.71		02/14/23 22:31		
richlorofluoromethane	1.2J	ug/m3	1.9	0.35	1.71		02/14/23 22:31		
,1,2-Trichlorotrifluoroethane	0.44J	ug/m3	2.7	0.39	1.71		02/14/23 22:31		
,2,4-Trimethylbenzene	<0.60	ug/m3	1.7	0.60	1.71		02/14/23 22:31		
,3,5-Trimethylbenzene	<0.47	ug/m3	1.7	0.47	1.71		02/14/23 22:31		
/inyl acetate	<0.30	ug/m3	1.2	0.47	1.71		02/14/23 22:31		
/inyl chloride	<0.16	ug/m3	0.44	0.30	1.71		02/14/23 22:31		
n&p-Xylene	<0.16 <0.84	ug/m3	3.0	0.16	1.71		02/14/23 22:31		
o-Xylene	<0.30	ug/m3	1.5	0.30	1.71		02/14/23 22:31		



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

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 Anal	ytical Service	s - Minneapo	olis					
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		
Benzyl chloride	<1.3	ug/m3	4.4	1.3	1.68		02/16/23 23:41		
Bromodichloromethane	<0.54	ug/m3	2.3	0.54	1.68		02/16/23 23:41		
Bromoform	<1.3	ug/m3	8.8	1.3	1.68		02/16/23 23:41		
Bromomethane	<0.50	ug/m3	1.3	0.50	1.68		02/16/23 23:41		
1,3-Butadiene	<0.19	ug/m3	0.76	0.19	1.68		02/16/23 23:41		
2-Butanone (MEK)	7.8	ug/m3	5.0	0.63	1.68		02/16/23 23:41		
Carbon disulfide	<0.39	ug/m3	1.1	0.39	1.68		02/16/23 23:41		
Carbon tetrachloride	10	ug/m3	2.2	0.70	1.68		02/16/23 23:41		
Chlorobenzene	<0.23	ug/m3	1.6	0.23	1.68		02/16/23 23:41		
Chloroethane	<0.34	ug/m3	0.90	0.34	1.68		02/16/23 23:41		
Chloroform	13.8	ug/m3	0.83	0.23	1.68		02/16/23 23:41		
Chloromethane	<0.15	ug/m3	0.71	0.15	1.68		02/16/23 23:41		
Cyclohexane	<0.23	ug/m3	2.9	0.23	1.68		02/16/23 23:41		
Dibromochloromethane	< 0.60	ug/m3	2.9	0.60	1.68		02/16/23 23:41		
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.3	0.52	1.68		02/16/23 23:41		
1,2-Distribution (LDB)	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41		
1,3-Dichlorobenzene	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41		
1,4-Dichlorobenzene	<1.4	ug/m3	5.1	1.4	1.68		02/16/23 23:41	-	
Dichlorodifluoromethane	2.6	ug/m3	1.7	0.86	1.68		02/16/23 23:41		
1,1-Dichloroethane	52.2	ug/m3	1.7	0.00	1.68		02/16/23 23:41		
1,2-Dichloroethane	2.2	ug/m3	1.4	0.16	1.68		02/16/23 23:41		
•	133	ug/m3	1.4	0.21	1.68		02/16/23 23:41		
1,1-Dichloroethene	111	•	1.4	0.26	1.68		02/16/23 23:41		
cis-1,2-Dichloroethene trans-1,2-Dichloroethene	2.4	ug/m3 ug/m3	1.4	0.30	1.68		02/16/23 23:41		
1,2-Dichloropropane	<0.34	•	1.4	0.70	1.68		02/16/23 23:41		
	<0.34 <1.1	ug/m3		1.1	1.68		02/16/23 23:41		
cis-1,3-Dichloropropene	<1.1 <1.3	ug/m3 ug/m3	3.9 3.9	1.3	1.68		02/16/23 23:41		
trans-1,3-Dichloropropene		•							
Dichlorotetrafluoroethane Ethanol	<0.41	ug/m3	2.4	0.41	1.68		02/16/23 23:41		
	8.1	ug/m3	3.2	1.5	1.68		02/16/23 23:41		
Ethyl acetate	<0.27	ug/m3	1.2	0.27	1.68		02/16/23 23:41		
Ethylbenzene	<0.30	ug/m3	1.5	0.30	1.68 1.68		02/16/23 23:41		
4-Ethyltoluene	<0.68 <0.22	ug/m3	4.2	0.68 0.22			02/16/23 23:41 02/16/23 23:41		
n-Heptane		ug/m3	1.4		1.68				
Hexachloro-1,3-butadiene	4.5J	ug/m3	9.1	3.0	1.68		02/16/23 23:41		
n-Hexane	0.81J	ug/m3	1.2	0.39	1.68		02/16/23 23:41		
2-Hexanone	1.2J	ug/m3	7.0	1.2	1.68		02/16/23 23:41		
Isopropylbenzene (Cumene)	<0.98	ug/m3	4.2	0.98	1.68		02/16/23 23:41		
Methylene Chloride	0.70J	ug/m3	5.9	0.21	1.68		02/16/23 23:41		
4-Methyl-2-pentanone (MIBK)	7.8	ug/m3	7.0	0.90	1.68		02/16/23 23:41		
Methyl-tert-butyl ether	<0.42	ug/m3	6.1	0.42	1.68		02/16/23 23:41		
Naphthalene	<3.5	ug/m3	4.5	3.5	1.68		02/16/23 23:41		
2-Propanol	9.5	ug/m3	4.2	1.6	1.68		02/16/23 23:41		
Propylene	<0.60	ug/m3	1.5	0.60	1.68		02/16/23 23:41	115-07-1	

02/16/23 23:41 179601-23-1

02/16/23 23:41 95-47-6



ANALYTICAL RESULTS

Project: 12584838-04 Pace Project No.: 10641932

m&p-Xylene

Date: 02/20/2023 01:51 PM

o-Xylene

Sample: SG-013023-TP-003	Lab ID:	10641932003	Collecte	d: 01/30/2	3 11:44	Received: 02	2/06/23 12:36 Ma	atrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
	Pace Anal	ytical Services	- Minneapo	lis					
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	

3.0

1.5

0.83 1.68

0.30 1.68

<0.83

<0.30

ug/m3

ug/m3



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

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

Deventer	Heite	Blank	Reporting	MDI	A a l a -l	Ovelitiese
Parameter	Units	Result	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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METHOD BLANK: 4576605 Matrix: Air

Associated Lab Samples: 10641932001, 10641932002

_		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3		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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ABORATORY CONTROL SAMPLE:	4576606					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifier
2-Hexanone	ug/m3	43.4	45.6	105	70-130	
2-Propanol	ug/m3	137	101	74	70-130	
-Ethyltoluene	ug/m3	52.3	56.5	108	70-137	
-Methyl-2-pentanone (MIBK)	ug/m3	43.6	44.4	102	70-142	
cetone	ug/m3	127	103	81	65-131	
enzene	ug/m3	33.8	30.6	91	70-130	
enzyl chloride	ug/m3	55.6	55.0	99	70-130	
romodichloromethane	ug/m3	71.5	68.0	95	70-132	
romoform	ug/m3	110	124	112	70-143	
romomethane	ug/m3	41.4	35.4	86	70-133	
arbon disulfide	ug/m3	33	30.2	92	70-131	
arbon tetrachloride	ug/m3	66.7	64.2	96	70-135	SS
hlorobenzene	ug/m3	49	48.3	99	70-133	
hloroethane	ug/m3	28.1	21.3	76	64-140	
hloroform	ug/m3	52.1	46.9	90	70-133	
hloromethane	ug/m3	22	18.7	85	68-130	
s-1,2-Dichloroethene	ug/m3	42.1	42.2	100	70-133	
s-1,3-Dichloropropene	ug/m3	48.2	48.7	101	70-133	
yclohexane	ug/m3	36.4	30.8	85	70-134	
ibromochloromethane	ug/m3	90.6	91.7	101	70-134	
ichlorodifluoromethane	ug/m3	52.5	48.2	92	70-130	
ichlorotetrafluoroethane	ug/m3	74.4	65.1	88	70-130	
thanol	ug/m3	113	87.9	78	65-130	
thyl acetate	ug/m3	38.4	39.0	101	70-134	
thylbenzene	ug/m3	46.2	42.9	93	70-134	
exachloro-1,3-butadiene	ug/m3	130	133	102	70-133	
copropylbenzene (Cumene)	ug/m3	52.7	48.1	91	70-136	
n&p-Xylene	ug/m3	92.4	82.1	89	70-130	
	ug/m3	38.3	33.1	86	70-130	
lethyl-tert-butyl ether lethylene Chloride	ug/m3	36.8	34.2	93	70-132 70-134	
-Heptane	ug/m3	43.5	35.0	93 81	69-140	
-Hexane	-	43.3 37.7	31.1	82	70-137	
laphthalene	ug/m3	63.9	60.7	95	70-137	
•	ug/m3 ug/m3	46	40.8	95 89	70-130 70-132	
-Xylene	ug/m3	18.6	40.6 15.0	81	69-130	
ropylene tyrene	Ū	45.3	48.4	107	70-136	
etrachloroethene	ug/m3 ug/m3	45.3 72	46.4 69.2	96	70-136	
	Ū	31.3	26.8		70-139 70-139	
etrahydrofuran	ug/m3			85 113	70-139 70-136	
HC as Gas oluene	ug/m3	5050 40.2	5700 36.1	113 90	70-136 70-132	
	ug/m3					
ans-1,2-Dichloroethene	ug/m3	42.3	43.9	104	70-132	
ans-1,3-Dichloropropene	ug/m3	48.4	44.9	93	70-130	
richloroethene	ug/m3	57.2	56.8	99	70-132	
richlorofluoromethane	ug/m3	60.3	48.2	80	65-139	
inyl acetate	ug/m3	38.7	40.9	106	70-131	
'inyl chloride	ug/m3	27.2	23.8	87	64-136	

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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	
	ug/m3	0.40J	0.37J		25	

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SAMPLE DUPLICATE: 4577302						
		10641964001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
n-Heptane	ug/m3		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						
		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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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		10641964002	Dup		Max	
Parameter	Units	Result	Result	RPD	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	
sopropylbenzene (Cumene)	ug/m3	<0.82	< 0.82		25	
n&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	
oluene	ug/m3	1.3	1.4	4	25	
rans-1,2-Dichloroethene	ug/m3	< 0.59	< 0.59		25	
rans-1,3-Dichloropropene	ug/m3	<1.1	<1.1		25	
Frichloroethene	ug/m3	3.7	3.9	5	25	
Trichlorofluoromethane	ug/m3	0.98J	1.0J		25	
/inyl acetate	ug/m3	<0.25	< 0.25		25	
/inyl 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.



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

Date: 02/20/2023 01:51 PM

		Blank	Reporting			
Parameter	Units	Result	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	

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.



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

METHOD BLANK: 4578382 Matrix: Air

Associated Lab Samples: 10641932003

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3		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	

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.



Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

ABORATORY CONTROL SAMPLE:	4578383					
_		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
2-Hexanone	ug/m3	43.4	42.8	99	70-130	
2-Propanol	ug/m3	137	133	97	70-130	
-Ethyltoluene	ug/m3	52.3	52.2	100	70-137	
-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.7	100	70-142	
cetone	ug/m3	127	121	95	65-131	
enzene	ug/m3	33.8	35.1	104	70-130	
enzyl chloride	ug/m3	55.6	53.4	96	70-130	
romodichloromethane	ug/m3	71.5	73.0	102	70-132	
romoform	ug/m3	110	118	107	70-143	
romomethane	ug/m3	41.4	40.0	97	70-133	
arbon disulfide	ug/m3	33	33.2	101	70-131	
arbon tetrachloride	ug/m3	66.7	66.7	100	70-135	
hlorobenzene	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	
is-1,2-Dichloroethene	ug/m3	42.1	43.8	104	70-133	
is-1,3-Dichloropropene	ug/m3	48.2	52.7	109	70-133	
cyclohexane	ug/m3	36.4	39.9	110	70-134	
ibromochloromethane	ug/m3	90.6	91.1	101	70-134	
richlorodifluoromethane	ug/m3	52.5	51.6	98	70-130	
ichlorotetrafluoroethane	ug/m3	74.4	72.5	97	70-130	
thanol	ug/m3	113	104	92	65-130	
thyl acetate	ug/m3	38.4	40.1	104	70-134	
thylbenzene	ug/m3	46.2	46.5	101	70-133	
lexachloro-1,3-butadiene	ug/m3	130	128	99	70-141	
sopropylbenzene (Cumene)	ug/m3	52.7	52.0	99	70-136	
n&p-Xylene	ug/m3	92.4	93.2	101	70-130	
lethyl-tert-butyl ether	ug/m3	38.3	40.2	105	70-132	
lethylene Chloride	ug/m3	36.8	36.1	98	70-134	
-Heptane	ug/m3	43.5	45.5	105	69-140	
-Hexane	ug/m3	37.7	41.0	109	70-137	
laphthalene	ug/m3	63.9	60.7	95	70-130	
-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	
etrachloroethene	ug/m3	72	73.2	102	70-139	
etrahydrofuran	ug/m3	31.3	34.2	109	70-139	
HC as Gas	ug/m3	5050	4620	91	70-136	
oluene	ug/m3	40.2	45.0	112	70-132	
ans-1,2-Dichloroethene	ug/m3	42.3	43.2	102	70-132	
ans-1,3-Dichloropropene	ug/m3	48.4	42.1	87	70-130	
richloroethene	ug/m3	57.2	57.3	100	70-132	
richlorofluoromethane	ug/m3	60.3	58.7	97	65-139	
/inyl acetate	ug/m3	38.7	39.1	101	70-131	
/inyl chloride	ug/m3	27.2	26.3	97	64-136	

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: 12584838-04 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

Date: 02/20/2023 01:51 PM

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12584838-04 Pace Project No.: 10641932

Date: 02/20/2023 01:51 PM

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		

Pace Analytical www.pacelabs.com

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:	:uc	Sec	Section C Invoice Information:	on:								200	58343	Page:	e: (of)
Company: C+1	Report To: M. See R	2. days &sa	1	Attention:									4	Program			
Address: 65 20 Corporade Onive	Copy To: Male	Ambero	1	Company Name:								T UST	edns	L	Emissions	Clean Air Act	ir Act
		5	Address	ess:								☐ Volunta	Voluntary Clean Up		Dry Clean T F	RCRA	Other
Email To:	Purchase Order No.:		Pao	Pace Quote Reference:	erence:										Repo	rting Units	
Phone: Fax:	Project Name:		Pao	Project Ma	Pace Project Manager/Sales Rep.	Rep.						Sampling by State	or by State	K	PPB	PPBV mg/m².	Н
Requested Due Date/TAT: Stankard	Project Number: 72587838	0	y Pao	Pace Profile #:								Report Level	 	. -	Other		
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE ##	Wald Media Codes MEDIA Todar Bay Tuler Summa can 1LC E Liter Summa Can 6LC Low Volume Puff HVP High Volume Puff HVP Other	EDIA CODE ND Reading (Client only)	TAR	ECTE	OMPO NDIGE	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Summa Can Number	N Co Fi	Flow Control Number	1 4 / / / / / / / / / / / / / / / / / /	Mel	SON ISIT IN SE	2001 181. 1018 81: 201 181. 1018 81: 18 181. 1018 81:		
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		× 1													N/A	N/A	N/A
WO#: 10641932	932			SAMPI PRINT NE	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE OF SAMPLER:	AND SIGN	NATURE	1	2878	DATE Signe	DATE Signed (MM / DD / YY)	۲۸)			O° ni qməT no bəviəcəA	lce Custody Sealed Cooler	Samples Intact

schnical Phone: 612.607.6386

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:	GH	10		Project (#: [WO#: 10641	.932	
Courier: FedEx Pace Tracking Number:	☐ UPS ☐ Spee	Dee [USPS Commercial	Clien	t ee Exception		PM: CT1 Due CLIENT: CRA_INDY	Date: 02/	20/23
Custody Seal on Cooler/Box Pr	resent?	☐ Yes	No		ge Exception _	L			
Seals Intact? Yes Packing Material:	☐ No Bubble Wrap	☐ Bubble Ba		nam		4	D-1-01-W-1-02		
	None	☐ Tin Can		ther:			Date & Initials of Person Examining Contents:	2-6-	23 MI
Chain of Custody Present?			Yes	Пис		_	Comments	~	
Chain of Custody Filled Out?			Yes	□ No		1. 2.			
Chain of Custody Relinquished	?		Yes	□ No		3.			
Sampler Name and/or Signatur			Yes	□No	□ N/A	4.			
Samples Arrived within Hold Ti	me?		Yes	□ No		5.			
Short Hold Time Analysis (<72	hr)?		Yes	₩ No		6.			
Rush Turn Around Time Reque	ested?		Yes	No		7.		2	
Sufficient Volume?			Yes	□ No		8.	-		
Correct Containers Used?			-			9.			
(Tedlar bags not acceptable co	ontainer for TO-15	or APH)	∑ Yes	☐ No		٥.			
-Pace Containers Used?		-	X Yes	☐ No					
Containers Intact?						10.			
(visual inspection/no leaks wh	en pressurized)		X Yes	☐ No					
Media: Air Can Airb						11.	Individually Certified Cans? Y N (st which samples	,
Is sufficient information availab	ole to reconcile sa	mples to the COC?	Yes	☐ No		12.		or miner oumpies	<u>'</u>
Do cans need to be pressurized (DO NOT PRESSURIZE 3C or AS			Yes	□No		13.	,		
				-			^		
		Gauge #:	10AIR26 🔲 10A	IR34 🔲 10A	AIR35 10AIR17		10AIR47 10AIR48		
*	Cani	sters					Canisters		
		Flow	Initial	Final			Flow	Initial	Final
Sample Number	Can ID	Controller	Pressure	Pressure	Sample Num	nber	Can ID Controller	Pressure	Pressure
001	1435	3328	-3.5	+10					iva
002	2865	3366	-0.5						
803	1305	3296	0		·····				
	1,000	30,70		*					
	4								
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					5				
			. 4						
CLIENT NOTIFICATION/RESOLU Person Contacted:					Data /Time		Field Data Required?	☐ Yes	□ No
Comments/Resolution:					Date/Time:				-
	Car	olyni	re Tri	rut			- 10 10 0		
Project Manager Review:		_				_	Date: 2/8/23		
Note: Whenever there is a disc preservative, out of temp, incom	repancy affecting rect containers).	North Carolina con	npliance samples,	copy of this fo	orm will be sent to th	e Noi	th Carolina DEHNR Certification Office (i.	out of hold, inc	orrect

Qualtrax ID: 52723



DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt

(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:		<u>.</u>			Wo	orkorder	#:	· · · · · · · · · · · · · · · · · · ·	
	Container	# af				otified?		No.	
Cut of Temp Sample IDs	Туре	Containe	n *						
	, ,	<u> </u>		If yes				ed/date/tin	ne.
		<u> </u>			It no,	indicate	reason	why.	
		 							
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Tracking Number/To	mperature	e ·	IS	sue Type:	ample ID			ntainer. Type :	e or Containers
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	pl	ր H Adiustme	ent Log fo	or Preserve	d Samples		L	L	
	· Type of	pH Upon	Date	Time	Amount Added	Lot#	pН	In Complian	
Sample ID	Preserve	Receipt	Adjusted	Adjusted	(mL)	Added	After	after addition	
								Yes	No
		 				·		Yes []	No
							•	Yes	No
					-			Yes 🔲	No:
							,	tes	NO
Comments:	· · · · · · · · · · · · · · · · · · ·				<u></u>		;		<u>L</u>
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Pace Analytical® ANALYTICAL REPORT

August 21, 2023

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:

Drittine Boyd

Brittnie L Boyd

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12065 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 08/08/23 18:31	Received da 08/15/23 09:	
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
IA-080823-TP-002 L1646112-02 Air			Collected by	Collected date/time 08/08/23 18:32	Received da 08/15/23 09:	
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
IA-080823-TP-003 L1646112-03 Air			Collected by	Collected date/time 08/08/23 18:34	Received da 08/15/23 09:	
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
A-080823-TP-004 L1646112-04 Air			Collected by	Collected date/time 08/08/23 18:35	Received da 08/15/23 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
/olatile Organic Compounds (MS) by Method TO-15	WG2115946	1	08/17/23 16:44	08/17/23 16:44	CEP	Mt. Juliet, TN
AA-080823-TP-005 L1646112-05 Air			Collected by	Collected date/time 08/08/23 19:04	Received da 08/15/23 09:	
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
A-080823-TP-006 L1646112-06 Air			Collected by	Collected date/time 08/11/23 10:05	Received da 08/15/23 09:	
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
A-080823-TP-007 L1646112-07 Air			Collected by	Collected date/time 08/11/23 10:05	Received da 08/15/23 09:	
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 08/11/23 10:19	Received da 08/15/23 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
V E O	11100445405	2.00	00/46/00 10 05	00/40/00 40 05	600	



















Volatile Organic Compounds (MS) by Method TO-15

WG2115180

3.36

08/16/23 18:25

SDS

Mt. Juliet, TN

08/16/23 18:25

SAMPLE SUMMARY

AC-081123-TP-009 L1646112-09 Air			Collected by	Collected date/time 08/11/23 10:18	Received da 08/15/23 09	
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
			Collected by	Collected date/time	Received da	te/time
IA-081123-TP-008 L1646112-10 Air				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 08/11/23 11:13	Received da 08/15/23 09	
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 08/11/23 10:56	Received da 08/15/23 09	
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 08/11/23 11:01	Received da 08/15/23 09	
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 08/11/23 11:49	Received da 08/15/23 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location



















Volatile Organic Compounds (MS) by Method TO-15

WG2115180

date/time

1

08/16/23 23:02

date/time

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

Brittine Boyd

-15: TO-15 was not analyzed due to insufficient sample volume.

Collected date/time: 08/08/23 18:31

SAMPLE RESULTS - 01

L1646112

Volatile Organic Compounds (MS) by Method TO-15											
	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>		
Analyte			ppbv	ug/m3	ppbv	ug/m3					
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		
,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	<u>E</u>	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	ND ND		1	WG2115180		
Toluene	109-99-9	92.10	0.500	1.88	0.560	2.11		1	WG2115180		
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	0.560 ND	ND		1	WG2115180		
1,2,7-1110110100001120110	120-02-1	101	0.030	4.00	ND	ND			WUZIIJIOU		















IA-080823-TP-001

Collected date/time: 08/08/23 18:31

SAMPLE RESULTS - 01

L1646112

	•	, ,							
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/08/23 18:32

SAMPLE RESULTS - 02

1646112

	CAS #	Mol. Wt.	DDI 1	DDI 2	Docult	Pocult.	Qualifier	Dilution	Patch
Analyte	CAS#	IVIOI. WT.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
•	67-64-1	58.10	1.25	2.97	7.31	17.4		1	WC211E100
cetone	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
llyl chloride									WG2115180
enzene	71-43-2	78.10	0.200	0.639	0.202	0.645		1	WG2115180
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
arbon 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
hlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2115180
hloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2115180
hloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2115180
hloromethane	74-87-3	50.50	0.200	0.413	0.420	0.867		1	WG2115180
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
	75-34-3	98	0.200	0.802	ND	ND		1	
1-Dichloroethane								1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND			WG2115180
s-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
s-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	56.5	107		1	WG2115180
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.511	2.87		1	WG2115180
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.375	1.85		1	WG2115180
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
eptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
ethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
, ,									
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
ethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	2.79	6.86		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	1.22	4.60		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

















IA-080823-TP-002

Collected date/time: 08/08/23 18:32

SAMPLE RESULTS - 02

.1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/08/23 18:34

SAMPLE RESULTS - 03

L1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
cetone	67-64-1	58.10	1.25	2.97	9.39	22.3		1	WG2115180
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
lenzene	71-43-2	78.10	0.200	0.639	0.233	0.744		1	WG2115180
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
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
hloromethane	74-87-3	50.50	0.200	0.413	0.497	1.03		1	WG2115180
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.211	0.836		1	WG2115180
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	59.7	113		1	WG2115180
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	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
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
leptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
sopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
lethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
1TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	1.93	4.74		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	0.975	2.88		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	1.04	3.92		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180















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SAMPLE RESULTS - 03

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/08/23 18:35

SAMPLE RESULTS - 04

L1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	4.49	10.7		1	WG2115946
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115946
enzene	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
,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
-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
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115946
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115946
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115946
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115946
,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115946
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115946
,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115946
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115946
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115946
,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115946
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115946
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115946
,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115946
thanol	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
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115946
richlorofluoromethane	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
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115946
,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115946
leptane	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
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115946
sopropylbenzene	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
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115946
I-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
laphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115946
-Propanol	67-63-0	60.10	1.25	3.07	1.56	3.83		1	WG2115946
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115946
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115946
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115946
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115946
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115946
oluene	108-88-3	92.10	0.500	1.88	1.14	4.29		1	WG2115946
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115946

















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SAMPLE RESULTS - 04

1646112

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2115946



















Collected date/time: 08/08/23 19:04

SAMPLE RESULTS - 05

L1646112

Volatile Organic Co					Desult	Decult	Ovalifian	Dilution	Datab
Analyto	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte	67.644	F0.40	ppbv	ug/m3	ppbv	ug/m3		1	WC244E400
Acetone	67-64-1	58.10	1.25	2.97	4.62	11.0		1	WG2115180
Allyl chloride	107-05-1 71-43-2	76.53	0.200	0.626	ND 0.330	ND		1	WG2115180
Benzene Benzel Chleride		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















AA-080823-TP-005

Collected date/time: 08/08/23 19:04

SAMPLE RESULTS - 05

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 10:05

SAMPLE RESULTS - 06

L1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	4.34	10.3		1	WG2115180
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
enzene	71-43-2	78.10	0.200	0.639	0.277	0.885		1	WG2115180
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
arbon 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
hloromethane	74-87-3	50.50	0.200	0.413	0.505	1.04		1	WG2115180
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	12.4	23.4		1	WG2115180
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
I-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	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
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
leptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2115180
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
Sopropylbenzene	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
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
-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
ITBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene Propage	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0 11F 07.1	60.10	1.25	3.07	ND	ND ND		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND 0.724	ND		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	0.724	2.73		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180















IA-080823-TP-006

Collected date/time: 08/11/23 10:05

SAMPLE RESULTS - 06

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.6				WG2115180



















Collected date/time: 08/11/23 10:05

SAMPLE RESULTS - 07

L1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
,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
-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
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
,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
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
,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
1-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	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
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
,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
lexachloro-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
sopropylbenzene	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
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
-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
1TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
laphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	1.50	3.69		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
ityrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	3.18	12.0		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180
, i ilicinorobenzene	120 02-1	101	0.000	1.00	ND	NU			1132113100

















IA-080823-TP-007 Collected date/time: 08/11/23 10:05

SAMPLE RESULTS - 07

1646112

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 10:19

SAMPLE RESULTS - 08

1646112

	CAS #	Mol. Wt.	DDI 1	RDL2	Pocul+	Pocult	Qualifier	Dilution	Patch
Analyte	CAS#	IVIOI. WT.	RDL1 ppbv	ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
•	67-64-1	58.10	4.20	9.98	39.3	93.4		3.36	WC211E100
cetone	107-05-1	76.53	0.672	2.10	39.3 ND	93.4 ND		3.36	WG2115180
llyl chloride									WG2115180
enzene	71-43-2	78.10	0.672	2.15	2.44	7.79		3.36	WG2115180
enzyl Chloride	100-44-7	127	0.672	3.49	ND	ND		3.36	WG2115180
romodichloromethane	75-27-4	164	0.672	4.51	ND	ND		3.36	WG2115180
romoform	75-25-2	253	2.02	20.9	ND	ND		3.36	WG2115180
romomethane	74-83-9	94.90	0.672	2.61	ND	ND		3.36	WG2115180
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
hlorobenzene	108-90-7	113	0.672	3.11	ND	ND		3.36	WG2115180
hloroethane	75-00-3	64.50	0.672	1.77	ND	ND		3.36	WG2115180
hloroform	67-66-3	119	0.672	3.27	ND	ND		3.36	WG2115180
hloromethane	74-87-3	50.50	0.672	1.39	2.15	4.44		3.36	WG2115180
-Chlorotoluene	95-49-8	126	0.672	3.46	ND	ND		3.36	WG2115180
yclohexane	110-82-7	84.20	0.672	2.31	ND	ND		3.36	WG2115180
ibromochloromethane	124-48-1	208	0.672	5.72	ND	ND		3.36	WG2115180
2-Dibromoethane	106-93-4	188	0.672	5.17	ND	ND		3.36	WG2115180
2-Dichlorobenzene	95-50-1	147	0.672	4.04	ND	ND		3.36	WG2115180
3-Dichlorobenzene	541-73-1	147	0.672	4.04	ND	ND		3.36	WG2115180
4-Dichlorobenzene	106-46-7	147	0.672	4.04	ND	ND		3.36	WG2115180
2-Dichloroethane	107-06-2	99	0.672	2.72	ND	ND		3.36	WG2115180
	75-34-3	98	0.672	2.69	ND	ND		3.36	
1-Dichloroethane									WG2115180
1-Dichloroethene	75-35-4	96.90	0.672	2.66	ND	ND		3.36	WG2115180
s-1,2-Dichloroethene	156-59-2	96.90	0.672	2.66	ND	ND		3.36	WG2115180
ans-1,2-Dichloroethene	156-60-5	96.90	0.672	2.66	ND	ND		3.36	WG2115180
2-Dichloropropane	78-87-5	113	0.672	3.11	ND	ND		3.36	WG2115180
s-1,3-Dichloropropene	10061-01-5	111	0.672	3.05	ND	ND		3.36	WG2115180
ans-1,3-Dichloropropene	10061-02-6	111	0.672	3.05	ND	ND		3.36	WG2115180
4-Dioxane	123-91-1	88.10	0.672	2.42	ND	ND		3.36	WG2115180
thanol	64-17-5	46.10	8.40	15.8	272	513		3.36	WG2115180
thylbenzene	100-41-4	106	0.672	2.91	0.901	3.91		3.36	WG2115180
-Ethyltoluene	622-96-8	120	0.672	3.30	ND	ND		3.36	WG2115180
richlorofluoromethane	75-69-4	137.40	0.672	3.78	ND	ND		3.36	WG2115180
ichlorodifluoromethane	75-71-8	120.92	0.672	3.32	1.17	5.79		3.36	WG2115180
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.672	5.15	ND	ND		3.36	WG2115180
2-Dichlorotetrafluoroethane	76-14-2	171	0.672	4.70	ND	ND		3.36	WG2115180
eptane	142-82-5	100	0.672	2.75	1.28	5.24		3.36	WG2115180
exachloro-1,3-butadiene	87-68-3	261	2.12	22.6	ND	ND		3.36	WG2115180
Hexane	110-54-3	86.20	2.12	7.47	ND	ND		3.36	WG2115180
opropylbenzene	98-82-8	120.20	0.672	3.30	ND	ND		3.36	WG2115180
ethylene Chloride	75-09-2	84.90	0.672	2.33	0.814	2.83		3.36	WG2115180
lethyl Butyl Ketone	591-78-6	100	4.20	17.2	ND	ND		3.36	WG2115180
-Butanone (MEK)	78-93-3	72.10	4.20	12.4	ND	ND ND		3.36	WG2115180
Methyl-2-pentanone (MIBK)	78-93-3 108-10-1		4.20	17.2	ND ND	ND ND			WG2115180 WG2115180
		100.10						3.36	
ethyl methacrylate	80-62-6	100.12	0.672	2.75	ND	ND		3.36	WG2115180
TBE	1634-04-4	88.10	0.672	2.42	ND	ND		3.36	WG2115180
aphthalene	91-20-3	128	2.12	11.1	ND	ND		3.36	WG2115180
Propanol	67-63-0	60.10	4.20	10.3	8.23	20.2		3.36	WG2115180
ropene	115-07-1	42.10	4.20	7.23	ND	ND		3.36	WG2115180
tyrene	100-42-5	104	0.672	2.86	ND	ND		3.36	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.672	4.62	ND	ND		3.36	WG2115180
etrachloroethylene	127-18-4	166	0.672	4.56	ND	ND		3.36	WG2115180
etrahydrofuran	109-99-9	72.10	0.672	1.98	ND	ND		3.36	WG2115180
oluene	108-88-3	92.10	1.68	6.33	8.10	30.5		3.36	WG2115180
,2,4-Trichlorobenzene	120-82-1	181	2.12	15.7	ND	ND		3.36	WG2115180

















SEG-081123-TP-001

Collected date/time: 08/11/23 10:19

SAMPLE RESULTS - 08

Volatile Organic Compounds (MS) by Method TO-15

	CAC #	M-1 M/4	DDI 4	DDI 2	Darrelt	Describ	0	Dilenter	D-1-h
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















L1646112-08 WG2115180: Dilution due to low sample volume.

Collected date/time: 08/11/23 10:18

SAMPLE RESULTS - 09

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	CAJ #	IVIOI. VVI.	ppbv	ug/m3	ppbv	ug/m3	Quaimer	ווענוטוו	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
enzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2115180
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND Fo.o.		1	WG2115180
romodichloromethane	75-27-4	164	0.200	1.34	7.58	50.8		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG2116664
3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG2116664
arbon 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
hloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG2116664
hloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG2116664
hloromethane	74-87-3	50.50	0.400	0.826	0.569	1.18		2	WG2116664
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG2116664
ibromochloromethane	124-48-1	208	0.200	1.70	1.33	11.3		1	WG2115180
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG2116664
	75-34-3 75-35-4	96.90		1.59	ND	ND		2	
1-Dichloroethene			0.400						WG2116664
s-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG2116664
ans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG2116664
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
s-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	5.00	9.43	30.5	57.5		2	WG2116664
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG2116664
ichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.584	2.89		2	WG2116664
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG2116664
2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG2116664
eptane	142-82-5	100	0.200	0.818	41.0	168		1	WG2115180
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	1.26	4.44	ND	ND		2	WG2116664
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
lethylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG2116664
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2116064 WG2115180
, ,									
-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG2116664
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
ITBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG2116664
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG2116664
ropene	115-07-1	42.10	2.50	4.30	ND	ND		2	WG2116664
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG2116664
oluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2115180
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180















AC-081123-TP-009

Collected date/time: 08/11/23 10:18

SAMPLE RESULTS - 09

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 10:17

SAMPLE RESULTS - 10

L1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	6.23	14.8		1	WG2115180
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2115180
enzene	71-43-2	78.10	0.200	0.639	0.505	1.61		1	WG2115180
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2115180
arbon 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
hloromethane	74-87-3	50.50	0.200	0.413	0.474	0.979		1	WG2115180
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	26.0	49.0		1	WG2115180
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2115180
l-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2115180
oichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.360	1.78		1	WG2115180
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
leptane	142-82-5	100	0.200	0.818	0.234	0.957		1	WG2115180
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	0.630	2.22	0.633	2.23		1	WG2115180
sopropylbenzene	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
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2115180
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
ITBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	1.62	6.10		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

















IA-081123-TP-008

Collected date/time: 08/11/23 10:17

SAMPLE RESULTS - 10

L1646112

	•								
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 11:13

SAMPLE RESULTS - 11

L1646112

Volatile Organic Co							0 115	50.00	5
Analyto	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte	67.644	F0.40	ppbv	ug/m3	ppbv	ug/m3		1	WC244E400
Acetone	67-64-1	58.10	1.25	2.97	9.14	21.7		1	WG2115180
Allyl chloride	107-05-1 71-43-2	76.53	0.200	0.626	ND 0.710	ND		1	WG2115180
Benzene Benzel Chleride		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

















AA-081123-TP-014

SAMPLE RESULTS - 11

L1646112

Volatile Organic Compounds (MS) by Method TO-15

Collected date/time: 08/11/23 11:13

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 10:56

SAMPLE RESULTS - 12

L1646112

Volatile Organic Co					Decult	Decult	Ovalifian	Dilution	Datah
Analyto	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	C7 C4 4	F0.10	ppbv	ug/m3	ppbv	ug/m3		1	WC244E400
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 c. 20		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 0.404	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	<u>E</u>	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

















IA-081123-TP-010 Collected date/time: 08/11/23 10:56

SAMPLE RESULTS - 12

1646112

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 11:01

SAMPLE RESULTS - 13

L1646112

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
romodichloromethane	75-27-4	164	0.200	1.34	0.225	1.51		1	WG2115180
romoform	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
,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
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	40.7	76.7		1	WG2115180
thylbenzene	100-41-4	106	0.200	0.867	0.304	1.32		1	WG2115180
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	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
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
leptane	142-82-5	100	0.200	0.818	0.238	0.973		1	WG2115180
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2115180
sopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2115180
lethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2115180
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.78	5.25		1	WG2115180
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2115180
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2115180
ITBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	1.96	4.82		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	10.1	17.4		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	0.294	1.25		1	WG2115180
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	0.643	1.90		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	3.22	12.1		1	WG2115180
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180















IA-081123-TP-011

Collected date/time: 08/11/23 11:01

SAMPLE RESULTS - 13

1646112

	<u> </u>								
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 08/11/23 11:49

SAMPLE RESULTS - 14

L1646112

Volatile Organic Co	ompounds	(MS) by	Method	TO-15					
	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2115180
Promodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2115180
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2115180
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2115180
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
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2115180
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2115180
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2115180
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2115180
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2115180
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2115180
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2115180
,2-Dichloroethane	107-06-2	99	0.200	0.810	0.234	0.947		1	WG2115180
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2115180
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2115180
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2115180
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2115180
,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2115180
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2115180
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2115180
,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2115180
thanol	64-17-5	46.10	2.50	4.71	118	222	<u>E</u>	1	WG2115180
Ethylbenzene	100-41-4	106	0.200	0.867	0.544	2.36	_	1	WG2115180
I-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2115180
richlorofluoromethane	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
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2115180
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2115180
leptane	142-82-5	100	0.200	0.818	0.743	3.04		1	WG2115180
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2115180
ı-Hexane	110-54-3	86.20	0.630	2.22	1.09	3.84		1	WG2115180
sopropylbenzene	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
1ethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2115180
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.48	7.31		1	WG2115180
-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
ITBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2115180
aphthalene	91-20-3	128	0.630	3.30	ND ND	ND ND		1	WG2115180
-Propanol	67-63-0	60.10	1.25	3.07	4.19	10.3		1	WG2115180
ropene	115-07-1	42.10	1.25	2.15	4.19 ND	ND		1	WG2115180
tyrene	100-42-5	104	0.200	0.851	0.613	2.61		1	WG2115180 WG2115180
*	79-34-5	168	0.200		0.613 ND	ND		1	
1,2,2-Tetrachloroethane				1.37					WG2115180
etrachloroethylene	127-18-4	166	0.200	1.36	0.581	3.94		1	WG2115180
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND 1F F		1	WG2115180
oluene	108-88-3	92.10	0.500	1.88	4.11	15.5		1	WG2115180
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2115180

















IA-081123-TP-012

Collected date/time: 08/11/23 11:49

SAMPLE RESULTS - 14

1646112

	•	, ,							
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















WG2115180

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15 L1646112-01,02,03,05,06,07,08,09,10,11,12,13,14

Method Blank (MB)

Wethod blank (IVID)				
(MB) R3961845-3 08/16/2	3 10:04			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	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>J</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

WG2115180

QUALITY CONTROL SUMMARY

Ss

Cn

Sc

L1646112-01,02,03,05,06,07,08,09,10,11,12,13,14

Method Blank (MB)

(S) 1,4-Bromofluorobenzene

Volatile Organic Compounds (MS) by Method TO-15

(MB) R3961845-3 08/16/23 10:04 MB RDL MB Result MB Qualifier MB MDL Analyte ppbv ppbv ppbv Isopropylbenzene U 0.0777 0.200 U 0.0979 0.200 Methylene Chloride Methyl Butyl Ketone U 0.133 1.25 U 0.0814 1.25 2-Butanone (MEK) 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 U 0.0932 1.25 Propene U 0.0788 0.200 Styrene 0.0743 1,1,2,2-Tetrachloroethane 0.200 Tetrachloroethylene U 0.0814 0.200 U 0.0734 Tetrahydrofuran 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 0.0775 0.200 U 0.0680 0.200 Trichloroethylene 1,2,4-Trimethylbenzene 0.0764 0.200 U 0.0779 1,3,5-Trimethylbenzene 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 0.200 Vinyl acetate U 0.116 Xylenes, Total U 0.135 0.600 0.135 0.400 m&p-Xylene U o-Xylene U 0.0828 0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

60.0-140

(LCS) R3961845-1 08/16/23 09:05 • (LCSD) R3961845-2 08/16/23 09:35
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(200) 1.0001010101		2,1.000.010	2 00/.0/20 00.	~~						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1646112-01,02,03,05,06,07,08,09,10,11,12,13,14

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
romodichloromethane	3.75	3.77	3.79	101	101	70.0-130			0.529	25	
romoform	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	
,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	
l,2-Dibromoethane	3.75	4.01	4.02	107	107	70.0-130			0.249	25	
l,2-Dichlorobenzene	3.75	3.78	3.90	101	104	70.0-130			3.13	25	
,3-Dichlorobenzene	3.75	3.87	4.04	103	108	70.0-130			4.30	25	
,4-Dichlorobenzene	3.75	3.87	4.02	103	107	70.0-130			3.80	25	
,2-Dichloroethane	3.75	3.75	3.77	100	101	70.0-130			0.532	25	
I,1-Dichloroethane	3.75	3.87	4.04	103	108	70.0-130			4.30	25	
I,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	
rans-1,2-Dichloroethene	3.75	3.95	4.02	105	107	70.0-130			1.76	25	
I,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	
rans-1,3-Dichloropropene	3.75	3.88	3.97	103	106	70.0-130			2.29	25	
,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	
Frichlorofluoromethane	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	
,1,2-Trichlorotrifluoroethane	3.75	3.84	3.91	102	104	70.0-130			1.81	25	
,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	
łexachloro-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	
sopropylbenzene	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	



















PAGE: 36 of 49

(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1646112-01,02,03,05,06,07,08,09,10,11,12,13,14

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	

60.0-140



















100

99.0

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1646112-04

Method Blank (MB)

(MB) R3962475-3 08/17/2	3 10:39				
	MB Result	MB Qualifier	MB MDL	MB RDL	Г
Analyte	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	Γ
Bromodichloromethane	U		0.0702	0.200	
Bromoform	U		0.0732	0.600	Ļ
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	L
Chloromethane	U		0.103	0.200	ſ
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	

WG2115946

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1646112-04

Method Blank (MB)

(MB) R3962475-3 08/17/2	3 10:39				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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>J</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	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3962475-1 08/17/2	23 09:06 • (LCS	SD) R3962475	-2 08/17/23 09	:53							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	



















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(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

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

,	,	,									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	Г
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	_
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	Г
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	<u> </u>
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	

60.0-140





















99.8

101

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1646112-09

Method Blank (MB)

Method Blank (MB)					11.7
(MB) R3962798-3 08/18/2	23 10:56				. ,
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ppbv	'-	ppbv	ppbv	-
Acetone	U		0.584	1.25	, <u> </u>
Allyl chloride	U		0.114	0.200	3
Bromomethane	U		0.0982	0.200	Ľ
1,3-Butadiene	U		0.104	2.00	4
Carbon disulfide	U		0.102	0.200	
Carbon tetrachloride	U		0.0732	0.200	l
Chloroethane	U		0.0996	0.200	5
Chloroform	U		0.0717	0.200	
Chloromethane	U		0.103	0.200	6
Cyclohexane	U		0.0753	0.200	
1,1-Dichloroethane	U		0.0723	0.200	
1,1-Dichloroethene	U		0.0762	0.200	7 (
cis-1,2-Dichloroethene	U		0.0784	0.200	Ľ
trans-1,2-Dichloroethene	U		0.0673	0.200	8
Ethanol	0.575	<u>J</u>	0.265	2.50	1
Trichlorofluoromethane	U		0.0819	0.200	
Dichlorodifluoromethane	U		0.137	0.200	9 (
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200	l L
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	

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

1646112-09

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

'S) P3962798	-1 U8/18/33 U8·40	• (LCSD) R3962798-2	08/18/23 10·19

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
cetone	3.75	3.86	4.01	103	107	70.0-130			3.81	25	
llyl 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	
,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	
hloroform	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	
yclohexane	3.75	4.09	4.17	109	111	70.0-130			1.94	25	
1-Dichloroethane	3.75	4.21	4.43	112	118	70.0-130			5.09	25	
-Dichloroethene	3.75	4.21	4.30	112	115	70.0-130			2.12	25	
s-1,2-Dichloroethene	3.75	3.65	3.96	97.3	106	70.0-130			8.15	25	
ns-1,2-Dichloroethene	3.75	4.21	4.26	112	114	70.0-130			1.18	25	
nanol	3.75	4.60	4.65	123	124	55.0-148			1.08	25	
ichlorofluoromethane	3.75	4.19	4.23	112	113	70.0-130			0.950	25	
ichlorodifluoromethane	3.75	4.22	4.28	113	114	64.0-139			1.41	25	
1,2-Trichlorotrifluoroethane	3.75	3.91	3.96	104	106	70.0-130			1.27	25	
2-Dichlorotetrafluoroethane	3.75	4.17	4.22	111	113	70.0-130			1.19	25	
Hexane	3.75	4.26	4.46	114	119	70.0-130			4.59	25	
ethylene Chloride	3.75	4.23	4.33	113	115	70.0-130			2.34	25	
Butanone (MEK)	3.75	4.02	4.20	107	112	70.0-130			4.38	25	
TBE	3.75	4.09	4.16	109	111	70.0-130			1.70	25	
Propanol	3.75	4.38	4.35	117	116	70.0-139			0.687	25	
opene	3.75	4.54	4.63	121	123	64.0-144			1.96	25	
etrahydrofuran	3.75	4.64	4.68	124	125	70.0-137			0.858	25	
,1-Trichloroethane	3.75	4.10	4.19	109	112	70.0-130			2.17	25	
2,4-Trimethylpentane	3.75	4.41	4.49	118	120	70.0-130			1.80	25	
nyl chloride	3.75	4.30	4.27	115	114	70.0-130			0.700	25	
inyl Bromide	3.75	4.12	4.10	110	109	70.0-130			0.487	25	
inyl 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					



















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 resu 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

Daga Applytical National	1206E Lohanan Dd Maunt I	TNI 27122
Pace Analytical National	12065 Lebanon Rd Mount J	uliet. TN 3/122

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
ldaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto





















PAGE:

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^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



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Section Requir	n A ed Client Information:	Section	n C Information:				119	1		Page:	\ of	4						
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Phone:	Fax	Project Name:	(N)	24 and 27	Pace Pr	oject Manag	ger/Sales Re	ер,			2		Sampling by	State IN			PPMV_	
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Pace Analytical® ANALYTICAL REPORT

February 22, 2024

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:

Drittine Boyd

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 National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Sr: Sample Results		5
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Volatile Organic Comp	ounds (MS) by Method TO-15	9
GI: Glossary of Terms		13
Al: Accreditations & Loca	tions	14
Sc: Sample Chain of Cust	tody	15



















SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
IA-02142024-AH-002 L1706926-01 Air			AH/SS	02/15/24 12:23	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 21:53	02/19/24 21:53	MSC	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
IA-02142024-AH-003 L1706926-02 Air			AH/SS	02/15/24 12:24	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 22:36	02/19/24 22:36	MNP	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.

¹Cp

















Brittnie L Boyd Project Manager

Brittine Boyd

SAMPLE RESULTS - 01

L1706926

	CAS #	Mol. Wt.	RDL1	RDL2	Pocul+	Pocul+	Qualifior	Dilution	Batch
Analyte	CAS#	IVIOI. VVI.		ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	<u>BdlCII</u>
•	C7 C4 1	F0.10	ppbv					1	WCCCCCC
cetone	67-64-1	58.10	1.25	2.97	10.9	25.9		1	WG2229358
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229358
enzene	71-43-2	78.10	0.200	0.639	1.12	3.58		1	WG2229358
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
arbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
arbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
hlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2229358
hloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229358
hloroform	67-66-3	119	0.200	0.973	0.231	1.12		1	WG2229358
hloromethane	74-87-3	50.50	0.200	0.413	2.92	6.03		1	WG2229358
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358 WG2229358
	107-06-2	99	0.200		ND	ND		1	
2-Dichloroethane				0.810					WG2229358
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
s-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
thanol	64-17-5	46.10	2.50	4.71	372	701	<u>E</u>	1	WG2229358
thylbenzene	100-41-4	106	0.200	0.867	0.234	1.01		1	WG2229358
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.235	1.32		1	WG2229358
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.470	2.32		1	WG2229358
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
eptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229358
ethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229358
lethyl Butyl Ketone	75-09-2 591-78-6	100	1.25	5.11	ND ND	ND ND			
								1	WG2229358
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	14.2	41.9		1	WG2229358
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229358
ethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
-Propanol	67-63-0	60.10	1.25	3.07	2.62	6.44		1	WG2229358
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
tyrene	100-42-5	104	0.200	0.851	0.347	1.48		1	WG2229358
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
oluene	108-88-3	92.10	0.500	1.88	2.35	8.85		1	WG2229358
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358

















IA-02142024-AH-002 Collected date/time: 02/15/24 12:23

SAMPLE RESULTS - 01

L1706926

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















SAMPLE RESULTS - 02

L1706926

Volatile Organic Compounds (MS) by Method TO-15

Volatile Organic Co	· ·				5 "	5 "	0 110	5.1	5
Amalista	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	07.044	50.40	ppbv	ug/m3	ppbv	ug/m3			Wasaasasa
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 WG2229358
	156-60-5	96.90	0.200	0.793	ND	ND ND		1	
trans-1,2-Dichloroethene									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			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 WG2229358
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358 WG2229358
•								1	
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND 0.00F	ND			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















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SAMPLE RESULTS - 02

L1706926

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706926-01,02

Method Blank (MB)

(MB) R4036598-2 02/19/2	24 14:58				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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	
,2-Dibromoethane	U		0.0721	0.200	
,2-Dichlorobenzene	U		0.128	0.200	
,3-Dichlorobenzene	U		0.182	0.200	
,4-Dichlorobenzene	U		0.0557	0.200	
,2-Dichloroethane	U		0.0700	0.200	
,1-Dichloroethane	U		0.0723	0.200	
,1-Dichloroethene	U		0.0762	0.200	
cis-1,2-Dichloroethene	U		0.0784	0.200	
rans-1,2-Dichloroethene	U		0.0673	0.200	
l,2-Dichloropropane	U		0.0760	0.200	
tis-1,3-Dichloropropene	U		0.0689	0.200	
rans-1,3-Dichloropropene	U		0.0728	0.200	
,4-Dioxane	U		0.0833	0.630	
thanol	0.493	<u>J</u>	0.265	2.50	
Ethylbenzene	U		0.0835	0.200	
1-Ethyltoluene	U		0.0783	0.200	
Frichlorofluoromethane	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	

WG2229358

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706926-01,02

Method Blank (MB)

(MB) R4036598-2 02/19/2	24 14:58				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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	
/inyl chloride	U		0.0949	0.200	
/inyl Bromide	U		0.0852	0.200	
/inyl acetate	U		0.116	0.630	
Kylenes, Total	U		0.135	0.600	
n&p-Xylene	U		0.135	0.400	
o-Xylene	U		0.0828	0.200	
(S) 1,4-Bromofluorobenzene	99.1			60.0-140	

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

(200) 11 1000000 1 02/10/	Spike Amount	•	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

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QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706926-01,02

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1 02/19/2	24 14:15 • (LCSI	D) R4036598-3	3 02/19/24 15:4	12							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	
sopropylbenzene	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	

Ср







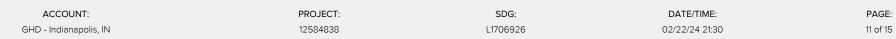












(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706926-01,02

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

' '	,	,									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	

60.0-140



















101

103

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.
Qualifior	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.

¹Cp

















 ACCOUNT:
 PROJECT:
 SDG:
 DATE/TIME:
 PAGE:

 GHD - Indianapolis, IN
 12584838
 L1706926
 02/22/24 21:30
 13 of 15

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















DATE/TIME:

02/22/24 21:30

^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace* Location Requested (City/State):	Pace* Location Requested (City/State): Air CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										LABI	ISE ONLY- Affix	Workorde	er/Login Lab	oel Here																																										
GHD - Indianapolis, IN		Contact/Repor	To: Kyle A	Amberge	er																																																				
Street Address: 9855 Crosspoint Blvd, Suite 136 Indianapolis, IN 46256 City, State Zip:		E-Mail: kyle	hone #: 317-291-7007 Mail: kyle.amberger@ghd.com;matthew.groves@ghd.com; angela.bown@ghd.com:timothv.branger@ghd.com:to				Scan QR code for instruct					nstructi	uctions J150																																												
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[] Other	Date Results Requested:	ST TAT	7	Units for Reporting:	ug/m³ pp	BV mg/m³	PPMV				G	Ouration Rate Volume	Duration Rate Volume	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow Total		Flow				Flor		Flow Total		Flow Total		Flow Total		Flow 1	Flow	Flow	Flow T	Flow Total		Flow Total				Profile / Template: T234717												
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Customer Sample 10	Matrix *	Canister ID	ID	Date	Time	Date	Time	Vacuum (in Hg)	Vacuum (in Hg)	(minutes)	m³/min or L/min	Sampled m ³ or L	-0T			Sample Comment																																									
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Pace Analytical® ANALYTICAL REPORT

February 22, 2024

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:

Drittine Boyd

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 National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
AA-02142024-AH-001 L1706929-01 Air			AH/SS	02/15/24 12:12	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/19/24 23:19	02/19/24 23:19	MNP	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
IA-02142024-AH-004 L1706929-02 Air			AH/SS	02/15/24 12:38	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
olatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/20/24 00:02	02/20/24 00:02	MSC	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
IA-02142024-AH-005 L1706929-03 Air			AH/SS	02/15/24 12:37	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229358	1	02/20/24 00:45	02/20/24 00:45	MNP	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.

¹Cp

















Brittnie L Boyd Project Manager

Brittine Boyd

SAMPLE RESULTS - 01

L1706929

Volatile Organic Co		, , ,			D!	D!	01.0	Dilinat	Datah
Aughte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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 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 56-23-5	76.10 154	0.200	0.622 1.26	ND ND	ND ND		1	WG2229358
Carbon tetrachloride Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND ND		1	WG2229358
Chloroethane	75-00-3	64.50	0.200	0.528	ND ND	ND ND		1	WG2229358
Chloroform	67-66-3	119	0.200	0.528	ND	ND ND		1	WG2229358 WG2229358
Chloromethane	74-87-3	50.50	0.200	0.973	0.569	1.18		1	
	95-49-8	126	0.200	1.03	0.569 ND	1.16 ND			WG2229358 WG2229358
2-Chlorotoluene								1	
Cyclohexane Dibromochloromethane	110-82-7 124-48-1	84.20 208	0.200 0.200	0.689 1.70	ND ND	ND ND		1	WG2229358
	106-93-4	188	0.200	1.70	ND ND	ND ND		1	WG2229358
1,2-Dibromoethane	95-50-1	188	0.200	1.54	ND ND	ND ND			WG2229358
1,2-Dichlorobenzene 1,3-Dichlorobenzene	95-50-1 541-73-1	147	0.200	1.20	ND ND	ND ND		1	WG2229358 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	75-35-4 156-59-2	96.90 96.90	0.200 0.200	0.793 0.793	ND ND	ND ND		1	WG2229358
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND ND	ND ND		1	WG2229358
trans-1,2-Dichloroethene	78-87-5	113	0.200	0.793	ND	ND ND		1	WG2229358
1,2-Dichloropropane cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.924	ND ND	ND ND		1	WG2229358 WG2229358
trans-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND ND		1	WG2229358 WG2229358
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358 WG2229358
Ethanol	64-17-5	46.10	2.50	4.71	4.43	8.35	R	1	WG2229358 WG2229358
Ethylbenzene	100-41-4	106	0.200	0.867	4.43 ND	ND	<u>B</u>	1	WG2229358 WG2229358
4-Ethyltoluene	622-96-8	120	0.200	0.887	ND	ND		1	WG2229358
4-Ethyltoluerie Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.236	1.33		1	WG2229358 WG2229358
Dichlorodifluoromethane	75-09- 4 75-71-8	120.92	0.200	0.989	0.230	2.43		1	
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	0.491 ND	2.43 ND		1	WG2229358 WG2229358
1,2-Dichlorotetrafluoroethane	76-13-1 76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
	142-82-5	100	0.200		ND	ND ND		1	
Heptane Hexachloro-1,3-butadiene	87-68-3	261	0.200	0.818 6.73	ND ND	ND ND		1	WG2229358 WG2229358
n-Hexane	110-54-3	86.20	0.630	2.22	ND ND	ND ND		1	WG2229358 WG2229358
Isopropylbenzene	98-82-8	120.20	0.630	0.983	ND	ND ND		1	WG2229358 WG2229358
Methylene Chloride	98-82-8 75-09-2	84.90	0.200	0.983	ND ND	ND ND		1	WG2229358 WG2229358
Methyl Butyl Ketone	75-09-2 591-78-6	100	1.25	5.11	ND ND	ND ND		1	WG2229358 WG2229358
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	5.95	17.5		1	WG2229358 WG2229358
4-Methyl-2-pentanone (MIBK)	78-93-3 108-10-1	100.10	1.25	5.12	5.95 ND	ND		1	WG2229358 WG2229358
Methyl methacrylate	80-62-6	100.10	0.200	0.819	ND ND	ND ND		1	WG2229358 WG2229358
метнут ттетластугате MTBE	1634-04-4	88.10	0.200	0.819	ND ND	ND ND		1	WG2229358 WG2229358
Naphthalene	91-20-3	128	0.630	3.30	ND	ND ND		1	WG2229358 WG2229358
vaprimaierie 2-Propanol	91-20-3 67-63-0	60.10	1.25	3.30	ND	ND ND		1	WG2229358 WG2229358
•	115-07-1	42.10	1.25	2.15	ND ND	ND ND		1	
Propene Styrene	100-42-5	42.10 104	0.200	0.851	ND ND	ND ND			WG2229358
*								1	WG2229358
I,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















 $\begin{array}{c} AA - 0.2142024 - AH - 0.01 \\ \text{Collected date/time:} \quad 0.2/15/24 \ 12:12 \end{array}$

SAMPLE RESULTS - 01

L1706929

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















SAMPLE RESULTS - 02

L1706929

CAS # 67-64-1 107-05-1	Mol. Wt.	RDL1 ppbv	RDL2	Result	Result	Qualifier	Dilution	Batch
		nnhv						
			ug/m3	ppbv	ug/m3			
107-05-1	58.10	1.25	2.97	13.1	31.1		1	WG2229358
	76.53	0.200	0.626	ND	ND		1	WG2229358
71-43-2	78.10	0.200	0.639	0.921	2.94		1	WG2229358
100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
75-25-2	253	0.600	6.21	ND	ND		1	WG2229358
74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229358
106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229358
75-15-0	76.10	0.200	0.622	ND	ND		1	WG2229358
56-23-5	154	0.200	1.26	ND	ND		1	WG2229358
108-90-7		0.200	0.924	ND	ND		1	WG2229358
75-00-3		0.200	0.528	ND	ND		1	WG2229358
							1	WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
		0.200						WG2229358
75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229358
156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
64-17-5	46.10	2.50	4.71	225	424	Е	1	WG2229358
100-41-4	106	0.200	0.867	0.213	0.923	_	1	WG2229358
622-96-8		0.200	0.982	ND	ND		1	WG2229358
75-69-4							1	WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358
							1	WG2229358
								WG2229358
108-10-1	100.10	1.25			ND		1	WG2229358
80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229358
1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229358
115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
100-42-5	104	0.200	0.851	0.277	1.18		1	WG2229358
79-34-5							1	WG2229358
								WG2229358
								WG2229358
								WG2229358
								WG2229358 WG2229358
	75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 95-49-8 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1 106-46-7 107-06-2 75-34-3 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 123-91-1 64-17-5 100-41-4 622-96-8 75-69-4 75-71-8 76-13-1 76-14-2 142-82-5 87-68-3 110-54-3 98-82-8 75-09-2 591-78-6 78-93-3 108-10-1 80-62-6 1634-04-4 91-20-3 67-63-0 115-07-1 100-42-5	75-15-0 76.10 56-23-5 154 108-90-7 113 75-00-3 64.50 67-66-3 119 74-87-3 50.50 95-49-8 126 110-82-7 84.20 124-48-1 208 106-93-4 188 95-50-1 147 541-73-1 147 106-46-7 147 107-06-2 99 75-34-3 98 75-35-4 96.90 156-60-5 96.90 78-87-5 113 10061-01-5 111 10061-02-6 111 123-91-1 88.10 64-17-5 46.10 100-41-4 106 622-96-8 120 75-69-4 137.40 75-71-8 120.92 76-13-1 187.40 76-14-2 171 142-82-5 100 87-68-3 261 110-54-3 86.20 98-82-8 120.20 75-09-2 84.90 591-78-6 100 78-93-3 72.10 108-10-1 100.10 80-62-6 100.12 1634-04-4 88.10 91-20-3 128 67-63-0 60.10 115-07-1 42.10 100-42-5 104 79-34-5 168 127-18-4 166 109-99-9 72.10 108-88-8 92.10	75-15-0 76.10 0.200 56-23-5 154 0.200 108-90-7 113 0.200 75-00-3 64.50 0.200 67-66-3 119 0.200 74-87-3 50.50 0.200 95-49-8 126 0.200 110-82-7 84.20 0.200 124-48-1 208 0.200 106-93-4 188 0.200 95-50-1 147 0.200 16-46-7 147 0.200 16-46-7 147 0.200 175-34-3 98 0.200 156-59-2 96.90 0.200 156-60-5 96.90 0.200 156-60-5 96.90 0.200 153-91-1 88.10 0.630 64-17-5 46.10 2.50 100-41-4 106 0.200 622-96-8 120 0.200 75-71-8 120.92 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 76-13-1 187.40 0.200 75-09-2 84.90 0.200 591-78-6 100 1.25 78-93-3 72.10 1.25 108-10-1 100.10 1.25 115-07-1 42.10 1.25 115-07-1 42.10 1.25 110-42-5 104 0.200 79-34-5 168 0.200 79-34-5 168 0.200 109-99-9 72.10 0.200 108-88-3 92.10 0.500	75-15-0 76.10 0.200 0.622 56-23-5 154 0.200 1.26 108-90-7 113 0.200 0.924 75-00-3 64.50 0.200 0.528 67-66-3 119 0.200 0.973 74-87-3 50.50 0.200 0.413 95-49-8 126 0.200 1.03 110-82-7 84.20 0.200 0.689 124-48-1 208 0.200 1.70 106-93-4 188 0.200 1.54 95-50-1 147 0.200 1.20 107-06-2 99 0.200 0.810 75-34-3 98 0.200 0.793 156-59-2 96.90 0.200 0.793 156-60-5 96.90 0.200 0.793 156-60-5 96.90 0.200 0.793 156-60-5 96.90 0.200 0.793 156-60-5 96.90 0.200 0.793 156-	75-15-0 76.10 0.200 0.622 ND 56-23-5 154 0.200 1.26 ND 108-90-7 113 0.200 0.924 ND 75-00-3 64.50 0.200 0.528 ND 67-66-3 119 0.200 0.973 ND 74-87-3 50.50 0.200 0.413 2.66 110-82-7 84.20 0.200 0.689 ND 110-82-7 84.20 0.200 1.03 ND 110-82-7 84.20 0.200 1.70 ND 106-93-4 188 0.200 1.54 ND 106-93-4 188 0.200 1.54 ND 106-46-7 147 0.200 1.20 ND 107-06-2 99 0.200 0.810 ND 156-59-2 96.90 0.200 0.793 ND 156-69-5 96.90 0.200 0.793 ND 156-60-5 96.90 0.200 0.793 ND 106-10-5 111 0.200 0.908 ND 123-91-1 88.10 0.630 2.27 ND 64-17-5 46.10 2.50 4.71 225 64-17-5 46.10 2.50 4.71 225 76-94-1 137.40 0.200 1.12 0.243 75-71-8 120.92 0.200 0.989 0.476 76-13-1 187.40 0.200 1.12 0.243 75-76-9-4 137.40 0.200 1.989 0.476 76-13-1 187.40 0.200 1.989 0.476 76-13-1 187.40 0.200 1.989 0.476 76-13-1 187.40 0.200 0.988 ND 100-14-2-6 1.10 0.200 0.982 ND 75-69-4 137.40 0.200 0.982 ND 75-69-8 120 0.200 0.982 ND 75-69-8 120 0.200 0.982 ND 75-69-8 120 0.200 0.989 0.476 76-13-1 187.40 0.200 1.53 ND 10-59-3 84.90 0.200 0.983 ND 10-64-5 100 1.25 5.11 ND 10-64-5 100 1.25 5.12 ND 100-42-5 100 0.200 0.819 ND 105-69-2 84.90 0.200 0.983 ND 105-69-3 128 0.630 3.30 ND 105-69-4 120 0.200 0.815 ND 105-69-5 104 0.200 0.851 ND 105-69-69-60-100.12 0.200 0.851 ND 105-69-99-9 72.10 0.200 0.590 ND 108-88-3 92.10 0.500 1.88 1.74	75-15-0 76.10 0.200 0.622 ND ND 56-23-5 154 0.200 1.26 ND ND 108-90-7 113 0.200 0.924 ND ND 75-00-3 64.50 0.200 0.528 ND ND 67-66-3 119 0.200 0.973 ND ND 74-87-3 50.50 0.200 0.413 2.66 5.49 95-49-8 126 0.200 1.03 ND ND 110-82-7 84.20 0.200 1.60 ND ND 106-83-4 188 0.200 1.70 ND ND 106-46-7 147 0.200 1.20 ND ND 106-46-7 147 0.200 1.20 ND ND 107-06-2 99 0.200 0.810 ND ND 75-35-4 96.90 0.200 0.793 ND ND 156-69-2 96.90 <t< td=""><td>75-15-0 76.10 0.200 0.622 ND ND ND 56-23-5 154 0.200 1.26 ND ND ND 56-23-5 154 0.200 0.924 ND ND ND 75-00-3 64.50 0.200 0.928 ND ND ND 75-00-3 64.50 0.200 0.973 ND ND ND 75-66-3 119 0.200 0.973 ND ND ND 75-76-78 75-78-78</td><td>75.15.0 76.10 0.200 0.622 ND ND 1 56.73.5 154 0.200 1.26 ND ND ND 108.90.7 113 0.200 0.924 ND ND 1 75.00.3 64.50 0.200 0.528 ND ND 1 75.00.3 64.50 0.200 0.973 ND ND 1 67.66.3 119 0.200 0.413 2.66 5.49 1 95.49.8 126 0.200 0.689 ND ND ND 1 108.27.7 84.20 0.200 1.6889 ND ND ND 1 109.59.4 188 0.200 1.70 ND ND ND 1 106.93.4 188 0.200 1.20 ND ND ND 1 106.93.4 188 0.200 1.20 ND ND 1 1 10 10 1 <td< td=""></td<></td></t<>	75-15-0 76.10 0.200 0.622 ND ND ND 56-23-5 154 0.200 1.26 ND ND ND 56-23-5 154 0.200 0.924 ND ND ND 75-00-3 64.50 0.200 0.928 ND ND ND 75-00-3 64.50 0.200 0.973 ND ND ND 75-66-3 119 0.200 0.973 ND ND ND 75-76-78 75-78-78	75.15.0 76.10 0.200 0.622 ND ND 1 56.73.5 154 0.200 1.26 ND ND ND 108.90.7 113 0.200 0.924 ND ND 1 75.00.3 64.50 0.200 0.528 ND ND 1 75.00.3 64.50 0.200 0.973 ND ND 1 67.66.3 119 0.200 0.413 2.66 5.49 1 95.49.8 126 0.200 0.689 ND ND ND 1 108.27.7 84.20 0.200 1.6889 ND ND ND 1 109.59.4 188 0.200 1.70 ND ND ND 1 106.93.4 188 0.200 1.20 ND ND ND 1 106.93.4 188 0.200 1.20 ND ND 1 1 10 10 1 <td< td=""></td<>

















IA-02142024-AH-004 Collected date/time: 02/15/24 12:38

SAMPLE RESULTS - 02

L1706929

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















SAMPLE RESULTS - 03

L1706929

	CAC #	NA-1 N/4	DDI4	DDI 2	Describ	Darrill	0	Diletien	D-1-l-
Analyto	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	67.64.1	F0.10	ppbv	ug/m3	ppbv	ug/m3		4	WCCCCCC
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
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229358
Iromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2229358
romoform	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
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
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229358
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229358
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2229358
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229358
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229358
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229358
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229358
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229358
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229358
	75-34-3 75-35-4	96.90		0.802	ND	ND		1	
1-Dichloroethene			0.200						WG2229358
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229358
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229358
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229358
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229358
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229358
4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229358
thanol	64-17-5	46.10	2.50	4.71	9.21	17.4		1	WG2229358
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229358
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229358
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.249	1.40		1	WG2229358
Pichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.443	2.19		1	WG2229358
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229358
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229358
leptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229358
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229358
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229358
opropylbenzene	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
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229358
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2229358
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND ND	ND		1	WG2229358 WG2229358
					ND ND	ND ND		1	
lethyl methacrylate	80-62-6	100.12	0.200	0.819					WG2229358
ITBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229358
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229358
-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229358
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229358
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229358
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229358
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229358
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229358
oluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229358
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229358















IA-02142024-AH-005 Collected date/time: 02/15/24 12:37

SAMPLE RESULTS - 03

L1706929

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















QUALITY CONTROL SUMMARY

L1706929-01,02,03

Method Blank (MB)

Method Blank (MB)	<u> </u>				
(MB) R4036598-2 02/19/2	24 14:58				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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>J</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	

WG2229358

QUALITY CONTROL SUMMARY

L1706929-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R4036598-2 02/19/2	24 14:58				٠
	MB Result	MB Qualifier	MB MDL	MB RDL	i
Analyte	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	П
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	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4036598-1	02/19/24 14:15 • (I	LCSD) R4036598-3	02/19/24 15:42
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(/	(,								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706929-01,02,03

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
nalyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	
,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	
I,2-Dibromoethane	3.75	3.61	3.68	96.3	98.1	70.0-130			1.92	25	
l,2-Dichlorobenzene	3.75	3.66	3.75	97.6	100	70.0-130			2.43	25	
l,3-Dichlorobenzene	3.75	3.59	3.79	95.7	101	70.0-130			5.42	25	
,4-Dichlorobenzene	3.75	3.70	3.79	98.7	101	70.0-130			2.40	25	
I,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	
l,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	
sopropylbenzene	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	

Ср

















PAGE:

13 of 17

(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706929-01,02,03

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

,		,									_
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	[2
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	3
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	4
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	5
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	6
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	7
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	8
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	9
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	

60.0-140



















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103

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
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В	The same analyte is found in the associated blank.
Е	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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 1 6	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Sectio		Section B			Section								J 149		age: of	
	d Client Information:	Report To: V A		a saidle	Attention	nformation:							Program			
Addres	GHDIIN	Copy To:	mberg	e led Con	Compan	y Name:						F UST F	Superfund E	Emissions	Clean Ai	r Act
		COPY TO:	yer @	ghol-com	Address								ean Up Dry (
Email T	0.	anaplabown of Purchase Order No.: 340-01647	e and	CDM	Pace Qu	ote Referen	108:							Re	porting Units	2-1
Phone:	Fax:				Pace Pro	ject Manag	er/Sales Re	ep. 0	Vh.	010-		Location of Sampling by S	State	pp pp	mg/m³ mg/m³ PPMV	=
Reque	sted Due Date/TAT: ST TAT	Former CN Project Number: 255	IN to	whity	Pace Pro	ofile #:		10V	117N	ielboy	<u>ja</u>	Report Level	II III I		her	
ITEM#	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HPP Other PM10	CODE sading (Client only)	COMPOSITE STAF	COLLI		POSITE -	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Numbe	Method:		15 Short Libr	/// /LI70l	en
E	n series nemen terrini una dilitaren territa menda denega telaha manan miden antam disebera dileta de		MEDIA		TIME	DATE	TIME					18/8/2/2	12/2/2/2	12/	Pace La	b ID
	AA-02142024-AH-		6LC	2/14	1325	-	1212	-29	-3		1029457		X		-01	
	IA-02142024-AL		6LC	2/14	1403		1238	-28	0	15125	010035	1-1	X		-02	- 12
	IA-02142024-AL	1-005	lole	2/14	1403	2/15	1237	-30	-4	15346	029554	4	X		-03	er wiewier feinen weisen
6 7 8 9 10 11	COC Seal Present/Intact COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	T/P#:	ll Lor: G Shu									DATE	TIME		LE CONDITI	A TOTAL CONTRACTOR OF THE PARTY
Comn	ents:	R	//	SHED BY / A	1		DATE	TIA		ACCEPTED	BY / AFFILIATION	DATE	IIIVIC	SAIVIF		Z ×
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										1	7 - 1987 -	0 100 000		-	X X	YW
							1			Jon	men	2-15-24	0900		X X	Y. X.
						PRINT Name	R NAME A	Hau			Scott Shola DATE Signed (MM/D	V (Temp in °C	Received on Y Ice Custody Sealed Cooler	Samples Intact Y.



Pace Analytical® ANALYTICAL REPORT

February 26, 2024

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

















PAGE:

1 of 18

Entire Report Reviewed By:

Drittine Boyd

Brittnie L Boyd

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time	
SG-02142024-AH-008 L1706947-01 Air			AH/SS	02/14/24 17:50	02/17/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
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
			Collected by	Collected date/time	Received date/time	
SG-02142024-AH-009 L1706947-02 Air			AH/SS	02/14/24 18:34	02/17/24 09:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229763	1	02/20/24 13:27	02/20/24 13:27	DAH	Mt. Juliet, TN
			Collected by	Collected date/time	Received date/time	
SG-02142024-AH-010 L1706947-03 Air			AH/SS	02/14/24 18:11	02/17/24 09:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2229763	1	02/20/24 14:14	02/20/24 14:14	DAH	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.

¹Cp

















Brittnie L Boyd Project Manager

Brittine Boyd

SAMPLE RESULTS - 01

L1706947

	CAS #	Mo! \//+	DDI 1	ב וחם	Docul+	Pocul+	Qualifier	Dilution	Patch
Analyte	CAS#	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	<u>Batch</u>
•	67.644	F0.40						1	W02220702
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
	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
trans-1,2-Dichloroethene	78-87-5	113	0.200	0.793	ND	ND		1	
1,2-Dichloropropane		111	0.200	0.924	ND	ND ND		1	WG2229763
cis-1,3-Dichloropropene	10061-01-5								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 WG2229763
,									
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND 0.880	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

















SG-02142024-AH-008 Collected date/time: 02/14/24 17:50

SAMPLE RESULTS - 01

L1706947

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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

















SAMPLE RESULTS - 02

L1706947

	CAS#	Mol. Wt.	RDL1	RDL2	Docul+	Docult	Qualifier	Dilution	Batch
Analyte	CAS#	IVIOI. VVI.		ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Balcii
•	C7 C4 1	F0 10	ppbv					1	WC22207C2
cetone	67-64-1	58.10	1.25	2.97	21.0 ND	49.9		1	WG2229763
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2229763
enzene	71-43-2	78.10	0.200	0.639	0.314	1.00		1	WG2229763
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2229763
romodichloromethane	75-27-4	164	0.200	1.34	1.08	7.24		1	WG2229763
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2229763
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2229763
3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2229763
arbon 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
hloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2229763
hloroform	67-66-3	119	0.200	0.973	5.89	28.7		1	WG2229763
hloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2229763
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2229763
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2229763
ibromochloromethane	124-48-1	208	0.200	1.70	0.286	2.43		1	WG2229763
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229763
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2229763
	541-73-1	147	0.200		ND	ND		1	
3-Dichlorobenzene	106-46-7	147	0.200	1.20	ND ND	ND ND		1	WG2229763 WG2229763
4-Dichlorobenzene									
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229763
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229763
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229763
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	5.63	22.3		1	WG2229763
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229763
s-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229763
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229763
4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229763
thanol	64-17-5	46.10	2.50	4.71	20.9	39.4		1	WG2229763
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229763
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229763
richlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2229763
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2229763
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229763
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229763
eptane	142-82-5	100	0.200	0.818	0.301	1.23		1	WG2229763
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2229763
	110-54-3		0.630	2.22	0.952			1	
Hexane		86.20				3.36			WG2229763
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229763
ethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2229763
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2229763
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.26	3.72		1	WG2229763
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2229763
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2229763
TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229763
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2229763
-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229763
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229763
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229763
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229763
etrachloroethylene	127-18-4	166	0.200	1.36	0.367	2.49		1	WG2229763
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229763
oluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229763
DIUCIIC	100 00-3	JZ.10	0.500	4.66	ND	ND ND		1	WG2229763 WG2229763

















SG-02142024-AH-009 Collected date/time: 02/14/24 18:34

SAMPLE RESULTS - 02

L1706947

Volatile Organic Compounds (MS) by Method TO-15

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















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SDG:

L1706947

SAMPLE RESULTS - 03

L1706947

Volatile Organic Co	<u> </u>	, , ,			Darrill	Darrille	0!:5	Dilenter	Datab
Analista	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte	07.044	E0.40	ppbv	ug/m3	ppbv	ug/m3			W00000700
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
,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
-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
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2229763 WG2229763
,2-Dichlorobenzene	95-50-1	147	0.200	1.54	ND ND	ND ND		1	WG2229763 WG2229763
•									
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2229763
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2229763
,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2229763
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2229763
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2229763
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2229763
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2229763
,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2229763
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2229763
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2229763
,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2229763
thanol	64-17-5	46.10	2.50	4.71	19.2	36.2		1	WG2229763
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2229763
I-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2229763
richlorofluoromethane	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
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2229763
,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2229763
leptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2229763
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND			
								1	WG2229763
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2229763
sopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2229763
lethylene 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
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.42	4.19		1	WG2229763
-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
1TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2229763
laphthalene	91-20-3	128	0.630	3.30	10.4	54.4		1	WG2229763
-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG2229763
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2229763
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2229763
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2229763
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2229763
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2229763
oluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2229763 WG2229763
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2229763

















SG-02142024-AH-010 Collected date/time: 02/14/24 18:11

SAMPLE RESULTS - 03

L1706947

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















L1706947-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R4036608-2 02/20/	24 10:50				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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	
l,2-Dichlorobenzene	U		0.128	0.200	
,3-Dichlorobenzene	U		0.182	0.200	
1,4-Dichlorobenzene	U		0.0557	0.200	
l,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			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	

L1706947-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R4036608-2 02/20/	24 10:50				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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>J</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	

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
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'	,	,								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

Volatile Organic Compounds (MS) by Method TO-15

L1706947-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

DANGERN	2-1 02/20/24 10:	U3 (1 CCD) D	10266002	02/20/24/11/40

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
romodichloromethane	3.75	3.70	3.74	98.7	99.7	70.0-130			1.08	25	
romoform	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	
,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	
l,2-Dibromoethane	3.75	4.08	3.95	109	105	70.0-130			3.24	25	
l,2-Dichlorobenzene	3.75	4.25	4.09	113	109	70.0-130			3.84	25	
,3-Dichlorobenzene	3.75	4.17	4.12	111	110	70.0-130			1.21	25	
,4-Dichlorobenzene	3.75	4.09	3.95	109	105	70.0-130			3.48	25	
,2-Dichloroethane	3.75	4.16	3.97	111	106	70.0-130			4.67	25	
,1-Dichloroethane	3.75	3.77	3.92	101	105	70.0-130			3.90	25	
,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	
rans-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	
rans-1,3-Dichloropropene	3.75	3.84	3.84	102	102	70.0-130			0.000	25	
,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	
,1,2-Trichlorotrifluoroethane	3.75	3.96	3.93	106	105	70.0-130			0.760	25	
,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	
lexachloro-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	
sopropylbenzene	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	

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(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1706947-01,02,03

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

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	

60.0-140



















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Volatile Organic Compounds (MS) by Method TO-15

L1706947-01

Method Blank (MB)

(MB) R4037851-3 02/24/24	4 08:09						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	ppbv		ppbv	ppbv			
Trichloroethylene	U		0.0680	0.200			
(S) 1,4-Bromofluorobenzene	100			60.0-140			





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4037851-1 02/2	24/24 07:07 • (LCS	D) R4037851-	-2 02/24/24 07	:39							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
Trichloroethylene	3.75	3.71	3.60	98.9	96.0	70.0-130			3.01	25	
(S) 1,4-Bromofluorobenze	ene			101	107	60.0-140					













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

Appleviations and	a 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

The identification of the analyte is acceptable; the reported value is an estimate.



















ACCREDITATIONS & LOCATIONS

Dage Applytical National	1206E Lohanan Dd Maunt	Luliat TNL 27122
Pace Analytical National	12065 Lebanon Rd Mount .	Juliet. TN 3/122

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	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	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



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

EPA-Crypto

TN00003



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Pace* Location Requested (City/State):		Air CHAIN-O Chain-of-Cu	F-CUSTOD stody is a LEGAL	1 - 2 - 5							LABI	JSE ONLY- Affix	(Workorde	er/Login Lat	bel Here		
Company Name: GHD - Indianapolis, IN Street Address: 9855 Crosspoint Blvd, Suite 136 Indianapolis, IN 46256		Phone #: 3	To: Kyle A 17-291-70 .amberger@ela.bown@gl	07 ghd.com;r	natthew.g	roves@gh	nd.com;	Scan QR code for instructions									
City, State Zip:		Cc E-Mail:				200											J155
Customer Project #: 12584838		Invoice to:		e de la companya de l		ala ar											
Project Name: Kraft - Former CMW Facility		Invoice E-Mail:													1	10	Xx 1.79.711
Site Collection Info/Facility ID (as applicable):			chase Order # (if applicable): 340-016426										Analyses Requested				Proj. Manager:
GHDIIN-12584838		Quote #:							Field	Information						_	829 - Brittnie L Boyd
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET	[] PT [] MT [] CT [] ET State origin of sampl					74° 3										Ā	AcctNum / Client
Data Deliverables:		gram (CAA, RCR/	A, etc.) as							T							D:
[]Level II []Level III []Level IV	applicable:		44			-		Car	nister		UF / FILT	ER			15	≥	GHDIIN
[] EQUIS	2 Day 3 day	oval required): 5 day Other		Permit # a	s applicable	- Park		Pressure	e / Vacuum				2	ila y		I o o l	Table #:
[-] Other	Date Results Requested:	ST TA	Γ.	Units for Reporting:	ug/m³ PP	BV mg/m³	PPMV				Flow	Total	umma		TO STATE OF	P P	Profile / Template: T234717
* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I),	Soil Vapor (SV), C	ther (0)						Start Pressure /	End Pressure	Duration	Rate	Volume	S	ing and			Prelog / Bottle P1051520
Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin C	Collection	End C	ollection	Vacuum	Vacuum		m³/min	Sampled	70-15			T	701947
CC =102 1112 02 11 0 0 0 0 0	0	1-1-4		21		21		(in Hg)	(in Hg)	(minutes)	or L/min	m³ or L			2.5		Sample Comment
SG-02142024-AH-008		E 354	012353				1750	-29	-4			71. 19	X	16			-01
5G-02142024-AH-009	0	23863	013611	2/14	1821	2/14	1834	-28	-4		ig n		X				-02
SG- 02142014-AH-010	0	28110	013368	2/14	1357	2/14	1811	-30	-3		-30		X				-03
	and the second				G-1	100 - 100 m								ar y	2		The second secon
	mple Receip	t Chacklist	<u> </u>	7.52.5							-0.00			a de la			
Second Seal Present/Intact: COC Signed/Accurate: Bottles arrive intact: Correct bottles used:	Y N N Si	ze: 3 Air	s £L	1.	4L												
Bottles arrive intact: Correct bottles used:	N Ta	ge Color: G bing	Shunt P_	_ B		-			1000		7		112			36	
												2 Sept 2 St.	S				
	T/	P#:	Ear withher the month of	Les and		Lever Till										1357	
						- 4											
Customer Remarks / Special Conditions / Possible Hazards:		Transfer de	1	Collected By	GHD			, ,		Additional	Instructio	ns from Pac	a 0 .				A standard of the standard of
	100			Printed Nar	ne: Audi	regito	worth	h and			ii isti uctio	ns nom rac		_			
				Signature	ods	IF	1	2	Markey &	# Coolers:		Thermometer	ID:		rection	Ol	bs. Temp. (*C): Corrected Temp. (*C):
Relinquished by/Company: (Signature)	160	Date/Time:	1 1-20	Received by/	Company: (S	gnature)				Date/Time:			X 1002 0	Fact	tor (°C):	king Numbe	er:
Relinquished by/Company: (Signature)		2/16/24 Date/Time:	1030	Received by/	Company: (Si	gnature)			7 34 37 Ac	Date/Time						1-45 35	
and the state of t			14.8	172	1909A		0		Date/Time:				Delivered by: In- Person Courier		In- Person Courier		
	positive by Sampling Deprature)					Date/Time: O LT 24 COURS FedEX UPS				IEX UPS Other							
Relinquished by/Company: (Signature)		Date/Time:		Received by/	Company: (Si	gnature)		James		Date/Time:	-17-24 0900 me:						
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at http					t https://w					Page: of:							



Pace Analytical® ANALYTICAL REPORT

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

















PAGE:

1 of 18

Entire Report Reviewed By:

Drittine Boyd

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 National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
AC-033023-TP-001 L1601225-01 Air				03/28/23 09:14	03/31/23 10:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 19:40	04/09/23 19:40	SDS	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
IA-033023-TP-002 L1601225-02 Air				03/30/23 09:15	03/31/23 10:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 20:18	04/09/23 20:18	SDS	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
IA-033023-TP-003 L1601225-03 Air				03/30/23 09:15	03/31/23 10:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2038725	1	04/09/23 20:55	04/09/23 20:55	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.

¹Cp

















Brittnie L Boyd Project Manager

Brittine Boyd

Collected date/time: 03/28/23 09:14

SAMPLE RESULTS - 01

L1601225

	CAS #	Mol. Wt.	DDI 1	DDI 2	Decult	Decult	Ouglifien	Dilution	Datah
Analyto	CAS #	MOI. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	C7 C4 4	F0.40	ppbv	ug/m3	ppbv	ug/m3		4	WC202072E
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 0.353	ND		1	WG2038725
lenzene	71-43-2	78.10	0.200	0.639	0.252	0.805		1	WG2038725
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2038725
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2038725
romoform	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
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
hloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2038725
hloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2038725
hloromethane	74-87-3	50.50	0.200	0.413	0.772	1.59		1	WG2038725
-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
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2038725
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2038725
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2038725
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2038725
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2038725 WG2038725
	75-34-3	98	0.200	0.802	ND	ND		1	
1-Dichloroethane								1	WG2038725
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND			WG2038725
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2038725
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2038725
s-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2038725
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2038725
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2038725
thanol	64-17-5	46.10	1.25	2.36	24.7	46.6		1	WG2038725
thylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2038725
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2038725
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.273	1.53		1	WG2038725
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.570	2.82		1	WG2038725
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2038725
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2038725
eptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2038725
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2038725
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2038725
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2038725
lethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2038725
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2038725
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2038725 WG2038725
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND ND		1	WG2038725 WG2038725
					ND ND	ND ND		1	
lethyl methacrylate	80-62-6	100.12	0.200	0.819					WG2038725
TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725
-Propanol	67-63-0	60.10	1.25	3.07	1.37	3.37		1	WG2038725
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2038725
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2038725
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2038725
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2038725
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2038725
oluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2038725
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725















AC-033023-TP-001

Collected date/time: 03/28/23 09:14

SAMPLE RESULTS - 01

L1601225

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 03/30/23 09:15

SAMPLE RESULTS - 02

L1601225

	CAS #	Mol. Wt.	DDI 1	DDI 2	Docult	Docult	Qualifier	Dilution	Datch
Analyte	CAS #	MOI. Wt.	RDL1	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
•	67.644	F0.40	ppbv					1	WC202072F
Acetone	67-64-1	58.10	1.25	2.97	18.5	44.0		1	WG2038725
llyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2038725
enzene	71-43-2	78.10	0.200	0.639	1.37	4.38		1	WG2038725
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2038725
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2038725
romoform	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
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
hloromethane	74-87-3	50.50	0.200	0.413	2.50	5.16		1	WG2038725
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2038725
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2038725
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2038725
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2038725
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2038725
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2038725
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2038725
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2038725
	75-3 4 -3 75-35-4	96.90	0.200	0.793	ND	ND		1	WG2038725
1-Dichloroethene									
is-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2038725
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2038725
is-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2038725
ans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2038725
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG2038725
thanol	64-17-5	46.10	1.25	2.36	228	430	<u>E</u>	1	WG2038725
thylbenzene	100-41-4	106	0.200	0.867	0.261	1.13		1	WG2038725
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2038725
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.267	1.50		1	WG2038725
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.560	2.77		1	WG2038725
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2038725
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2038725
eptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2038725
lexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2038725
-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2038725
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2038725
lethylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2038725
lethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2038725
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.74	5.13		1	WG2038725
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2038725
lethyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2038725
TBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725
-Propanol	67-63-0	60.10	1.25	3.07	2.54	6.24		1	WG2038725 WG2038725
•	115-07-1	42.10	1.25	2.15	2.54 ND			1	
ropene						ND 1.2E			WG2038725
tyrene	100-42-5	104	0.200	0.851	0.317	1.35		1	WG2038725
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2038725
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2038725
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2038725
oluene	108-88-3	92.10	0.500	1.88	2.26	8.51		1	WG2038725
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725

















IA-033023-TP-002

Collected date/time: 03/30/23 09:15

SAMPLE RESULTS - 02

L1601225

	010 "		DD14	2212	.	5	0 115	5	B
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















Collected date/time: 03/30/23 09:15

SAMPLE RESULTS - 03

L1601225

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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
,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
l,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2038725
l,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
I,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2038725
I,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
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2038725
l,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
rans-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	<u>E</u>	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
sopropylbenzene	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 WG2038725
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2038725 WG2038725
1-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2038725 WG2038725
Methyl methacrylate	80-62-6	100.10	0.200	0.819	ND	ND		1	WG2038725 WG2038725
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2038725 WG2038725
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2038725 WG2038725
2-Propanol	67-63-0	60.10	1.25	3.07	7.73	19.0		1	WG2038725 WG2038725
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2038725 WG2038725
Styrene	100-42-5	104	0.200	0.851	0.229	0.974		1	WG2038725 WG2038725
,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	0.229 ND	0.974 ND		1	WG2038725 WG2038725
Fetrachloroethylene	79-34-5 127-18-4	166	0.200	1.37	0.332	2.25		1	WG2038725 WG2038725
•				0.590	0.332 ND	ND		1	
Tetrahydrofuran	109-99-9	72.10	0.200						WG2038725
oluene	108-88-3	92.10	0.500	1.88	1.32	4.97		1	WG2038725
,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2038725















PROJECT:

12584838

IA-033023-TP-003

Collected date/time: 03/30/23 09:15

SAMPLE RESULTS - 03

L1601225

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
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



















L1601225-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R3911885-2 04/09/2	3 10:33				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	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	L
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	

L1601225-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(S) 1,4-Bromofluorobenzene 98.1

(MB) R3911885-2 04/09/2	3 10:33				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Isopropylbenzene	U		0.0777	0.200	
Methylene Chloride	U		0.0979	0.200	3
Methyl Butyl Ketone	U		0.133	1.25	
2-Butanone (MEK)	U		0.0814	1.25	2
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25	
Methyl Methacrylate	U		0.0876	0.200	Ļ
MTBE	U		0.0647	0.200	5
Naphthalene	U		0.350	0.630	L
2-Propanol	U		0.264	1.25	6
Propene	0.170	<u>J</u>	0.0932	1.25	
Styrene	U		0.0788	0.200	_
1,1,2,2-Tetrachloroethane	U		0.0743	0.200	7
Tetrachloroethylene	U		0.0814	0.200	L
Tetrahydrofuran	U		0.0734	0.200	8
Toluene	U		0.0870	0.500	
1,2,4-Trichlorobenzene	U		0.148	0.630	_
1,1,1-Trichloroethane	U		0.0736	0.200	9
1,1,2-Trichloroethane	U		0.0775	0.200	L
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	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

60.0-140

(LCS) R3911885-1 04/09/2	23 09:56 • (LCS)	D) R3911885-3	04/09/23 11:17	'						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	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

Volatile Organic Compounds (MS) by Method TO-15

L1601225-01,02,03

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 Spike Amount | LCS Desult LCSD Poc DDD Limite















	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	
	CCOUNT:			DDO	JECT:		SDG:			DATE/TIME: PAGE	

(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1601225-01,02,03

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

,	,	,									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	ı
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
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	Į.
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	<u> </u>
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	- 1
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	

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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 resu 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
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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.

¹Cp



















ACCREDITATIONS & LOCATIONS

Dage Applytical National	1206E Lohanan Dd Maunt	Luliat TNL 27122
Pace Analytical National	12065 Lebanon Rd Mount .	Juliet. TN 3/122

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

EPA-Crypto

TN00003



















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 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$



AIR: CHAIN-OF-CUSTODY / Analytical Request

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

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