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GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

17975 West Sarah Lane
Suite 100
Brookfield, WI 53045
T: 262.754.2560
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www.gza.com

January 17, 2025
File No. 20.0156045.01

Mr. Timothy Alessi, NR Region Program Manager
Wisconsin Department of Natural Resources
1027 West St. Paul Avenue
Milwaukee, Wisconsin 53233-2641

Re: Notification of Sub-Slab and Soil Gas Sample Results - December 2024
Leather-Rich Inc.
1250 Corporate Center Drive, Oconomowoc, Wisconsin
BRRTS No. 02-68-581237

Dear Mr. Alessi:

On behalf of Leather-Rich Inc. (LRI), GZA GeoEnvironmental, Inc. (GZA) is providing the Wisconsin Department of Natural Resources (WDNR) the sub-slab and soil gas vapor results collected at the LRI site at 1250 Corporate Center Drive in Oconomowoc, Wisconsin on December 30, 2024. These results are being submitted to satisfy the sample notification requirement of Wisconsin Administrative Code (Wis. Adm. Code) NR 716.14 (2). Please note that this report is subject to the limitations provided in **Attachment 1**. Also attached are a summary table of the sample results (**Table 1**), a Site Plan showing the LRI building (**Figure 1**), a figure showing the sampling locations (**Figure 2**), and the laboratory analytical report (**Attachment 2**).

Vapor samples were collected from two sub-slab sample points and one deep soil gas sampling point that were installed as part of the site investigation in 2018, by Giles Engineering Associates, Inc. (Giles). The sub-slab samples were collected from Vapor Pins® and the deep soil gas samples were collected from points installed to a depth of approximately 5 feet below floor surface. The installation details of the deep soil gas point are described in the Giles' *Site Investigation Report*, dated October 3, 2018.

On December 30, 2024, the samples were collected using 6-liter SUMMA® canisters with a 30-minute regulator. A shut-in test was performed on the sample train to ensure it was tight and a helium shroud with helium detector was used to ensure there was not leakage around the sample point. The samples were shipped to Pace® Analytical in Mount Joliet, Tennessee for analysis by Method TO-15.

Table 1 presents the results of the sampling. The sub-slab vapor activities were performed as part of the site investigation related to the former operations at the property, as previously reported to the WDNR. The vapor evaluation of the LRI building is continuing and may include additional analyses to determine the appropriate next steps. These are preliminary results and the sub-slab results alone cannot quantify the risk to human health or the environment. This data suggests the sub-slab vapors may be limited in horizontal extent.

If you should you have any questions regarding the attached vapor sampling analytical testing results, please feel free to contact the undersigned at (262) 754-2578.

Very truly yours,

GZA GeoEnvironmental, Inc.

Kevin M. Hedinger
Senior Hydrogeologist

James F. Drought, P.H.
Principal Hydrogeologist

J:\156000to156999\156045 Leather Rich\01 Add'l-Off-Site\Correspondence\Vapor Sample Notification\
FINAL 20.0156045.01 Notification of Vapor Sample Results_Oconomowoc WI 1-17-25.docx

Attachments: Table 1
Figures 1 and 2
Limitations
Laboratory Analytical Report

cc: Ms. Cheryl Chew, LRI
Ms. Delanie Breuer, Fredrikson Law

TABLE

SUMMARY OF DETECTED SUB-SLAB SOIL GAS VAPOR ANALYTICAL RESULTS

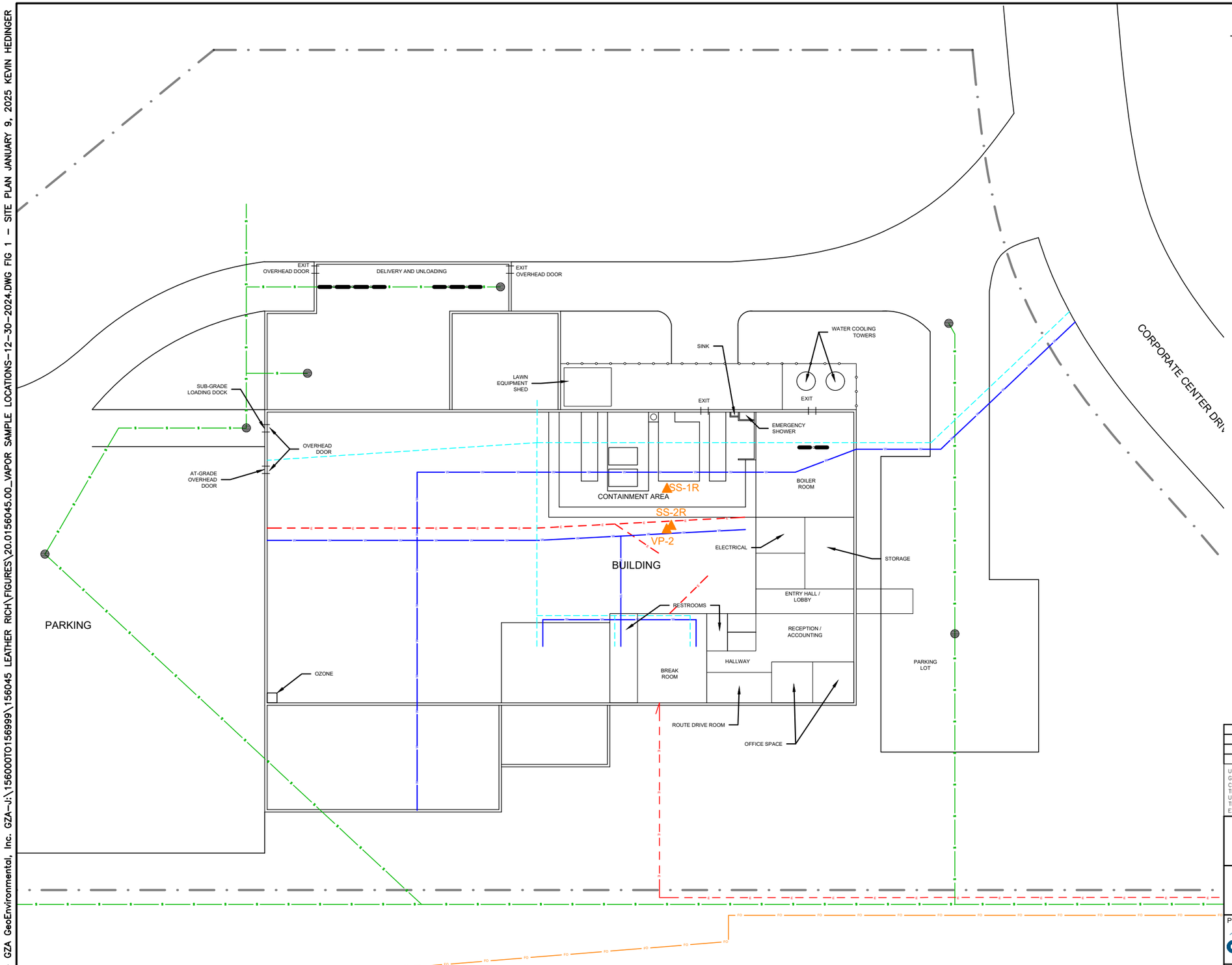
Leather Rich
1250 CXorporate Center Drive
Oconomowoc, Wisconsin
BRRTS No. 02-68-581237

Analyte	SS-1R	SS-2R	VP-2
Sample Date	12/30/2024	12/30/2024	12/30/2024
1,1-Dichloroethene	3.28	<0.987	2.5
1,2,4-Trimethylbenzene	1.76	1.55	<1.52
2,2,4-Trimethylpentane	8.27	<1.4	4.31
2-Propanol	7.77	<5.58	<5.58
4-Ethyltoluene	1.63	1.54	<1.45
Acetone	22.1	15.3	<4.11
Benzene	6.01	<1.17	5.24
Dichlorodifluoromethane	1.99	2.14	2.72
Ethanol	34.5	18	<14.9
Heptane	1.60	<1.55	<1.55
Hexane	2.26	<1.68	<1.68
O-Xylene	1.34	<1.28	<1.28
Toluene	<1.63	<1.63	1.91
trans-1,2-Dichloroethene	161	13.8	162
Trichlorofluoromethane	1.45	<1.44	<1.44
Xylene (total)	3.67	2.77	2.33
cis-1,2-Dichloroethene	2,510	205	4,080
Trichloroethene	1,880	508	6,430
Tetrachloroethene	34,800	10,500	104,000

Notes

All results are in $\mu g/m^3$.
Samples were collected using 6-liter SUMMA® canisters.
Samples were analyzed for VOCs using Method TO-15 by Pace® Analytical.

FIGURES



LEGEND

- DRAIN
- VP-2 SOIL GAS VAPOR POINT
- SS-1 SUB-SLAB VAPOR POINT
- TRENCH DRAIN
- WATER UTILITY
- SANITARY SEWER
- ELECTRIC
- STORM SEWER
- FIBER OPTIC / INTERNET

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
2. THE USE OF AERIAL PHOTOGRAPHY CAN OFTEN MAKE BUILDINGS AND OTHER SITE FEATURES APPEAR TO BE OVERLAPPING AND DISTORTED WHEN OVERLAID WITH ACTUAL SITE FEATURES.
3. THE LOCATION OF THE EXPLORATIONS WERE APPROXIMATELY DETERMINED BY LINE OF SIGHT AND/OR TAPE MEASUREMENTS FROM EXISTING TOPOGRAPHIC FEATURES. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
4. THE APPROXIMATE LOCATION OF THE SITE BOUNDARY WAS OBTAINED THROUGH USE OF THE LOCAL COUNTY ONLINE GIS MAPPING TOOL. THE PROGRAM NOTES THAT ALL PROPERTY BOUNDARIES ARE NOT SURVEYED AND ARE ONLY APPROXIMATE REPRESENTATIONS OF ACTUAL BOUNDARIES.

N
W E
S

0 20' 40' 80'

SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

VAPOR SAMPLING LOCATIONS

SITE PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY:	FIG 1
DESIGNED BY:	DRAWN BY: KMH	SCALE: AS SHOWN	
DATE: 1/9/2025	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF

DING

EXIT
OVERHEAD DOOR

LAWN
EQUIPMENT
SHED

SINK

WATER COOLING
TOWERS

EXIT

EXIT

EMERGENCY
SHOWER

SS-1R

CONTAINMENT AREA

SS-2R

VP-2

BOILER
ROOM

ELECTRICAL

BUILDING

STORAGE

ENTRY HALL /
LOBBY

RESTROOMS

RECEPTION /
ACCOUNTING

HALLWAY

BREAK
ROOM

PARKING
LOT

ROUTE DRIVE ROOM

OFFICE SPACE

LEGEND

- DRAIN
- VP-2 SOIL GAS VAPOR POINT
- SS-1 SUB-SLAB VAPOR POINT
- TRENCH DRAIN
- WATER UTILITY
- SANITARY SEWER
- ELECTRIC
- STORM SEWER
- FIBER OPTIC / INTERNET

NOTES

1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED BY THE U.S.G.S.
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N
W E
S

0 10' 20' 40'
SCALE IN FEET 1" = 20'

NO.	ISSUE/DESCRIPTION	BY	DATE

VAPOR SAMPLING LOCATIONS

SUB-SLAB & SOIL GAS VAPOR POINTS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
LEATHER - RICH, INC.
1250 CORPORATE CENTER DRIVE
OCONOMOWOC, WI 53066

PROJ MGR: HAW	REVIEWED BY: KMH	CHECKED BY:	FIG 2
DESIGNED BY:	DRAWN BY: KMH	SCALE: AS SHOWN	
DATE: 1/9/2025	PROJECT NO. 20.0156045.02	REVISION NO.	SHEET NO. OF

ATTACHMENT 1

Limitations

LIMITATIONS

STANDARD OF CARE

1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
3. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

4. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

5. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
6. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
7. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

8. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

9. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

10. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

ATTACHMENT 2

Laboratory Analytical Report

ANALYTICAL REPORT

January 06, 2025

GZA GeoEnvironmental - Brookfield, WI

Sample Delivery Group:	L1813471
Samples Received:	12/31/2024
Project Number:	20.0156045.01
Description:	Leather Rich

Report To: Heidi Woelfel
17975 West Sarah Lane
Brookfield, WI 53045

Entire Report Reviewed By:

John Hawkins
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

VP-2 L1813471-01 Air

Collected by: Chris Ainsworth | Collected date/time: 12/30/24 10:45 | Received date/time: 12/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2426925	1	01/01/25 04:33	01/01/25 04:33	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2427754	20	01/02/25 22:42	01/02/25 22:42	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2428112	1000	01/03/25 16:46	01/03/25 16:46	DAH	Mt. Juliet, TN

SS-2R L1813471-02 Air

Collected by: Chris Ainsworth | Collected date/time: 12/30/24 10:51 | Received date/time: 12/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2426925	1	01/01/25 05:21	01/01/25 05:21	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2428112	200	01/03/25 17:23	01/03/25 17:23	DAH	Mt. Juliet, TN

SS-1R L1813471-03 Air

Collected by: Chris Ainsworth | Collected date/time: 12/30/24 11:17 | Received date/time: 12/31/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2426925	1	01/01/25 06:08	01/01/25 06:08	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2427754	20	01/02/25 23:33	01/02/25 23:33	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2428112	200	01/03/25 18:00	01/03/25 18:00	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.

John Hawkins
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	4.11	ND		1	WG2426925
Allyl chloride	107-05-1	76.53	1.94	ND		1	WG2426925
Benzene	71-43-2	78.10	1.17	5.24		1	WG2426925
Benzyl Chloride	100-44-7	127	1.54	ND		1	WG2426925
Bromodichloromethane	75-27-4	164	1.56	ND		1	WG2426925
Bromoform	75-25-2	253	2.61	ND		1	WG2426925
Bromomethane	74-83-9	94.90	1.21	ND		1	WG2426925
1,3-Butadiene	106-99-0	54.10	1.17	ND		1	WG2426925
Carbon disulfide	75-15-0	76.10	1.66	ND		1	WG2426925
Carbon tetrachloride	56-23-5	154	1.57	ND		1	WG2426925
Chlorobenzene	108-90-7	113	1.82	ND		1	WG2426925
Chloroethane	75-00-3	64.50	0.968	ND		1	WG2426925
Chloroform	67-66-3	119	1.69	ND		1	WG2426925
Chloromethane	74-87-3	50.50	0.758	ND		1	WG2426925
2-Chlorotoluene	95-49-8	126	1.35	ND		1	WG2426925
Cyclohexane	110-82-7	84.20	1.95	ND		1	WG2426925
Dibromochloromethane	124-48-1	208	1.97	ND		1	WG2426925
1,2-Dibromoethane	106-93-4	188	1.77	ND		1	WG2426925
1,2-Dichlorobenzene	95-50-1	147	1.47	ND		1	WG2426925
1,3-Dichlorobenzene	541-73-1	147	1.51	ND		1	WG2426925
1,4-Dichlorobenzene	106-46-7	147	1.54	ND		1	WG2426925
1,2-Dichloroethane	107-06-2	99	0.984	ND		1	WG2426925
1,1-Dichloroethane	75-34-3	98	0.950	ND		1	WG2426925
1,1-Dichloroethene	75-35-4	96.90	0.987	2.50		1	WG2426925
cis-1,2-Dichloroethene	156-59-2	96.90	21.0	4080		20	WG2427754
trans-1,2-Dichloroethene	156-60-5	96.90	0.971	162		1	WG2426925
1,2-Dichloropropane	78-87-5	113	1.16	ND		1	WG2426925
cis-1,3-Dichloropropene	10061-01-5	111	1.13	ND		1	WG2426925
trans-1,3-Dichloropropene	10061-02-6	111	1.20	ND		1	WG2426925
1,4-Dioxane	123-91-1	88.10	1.97	ND		1	WG2426925
Ethanol	64-17-5	46.10	14.9	ND		1	WG2426925
Ethylbenzene	100-41-4	106	1.12	ND		1	WG2426925
4-Ethyltoluene	622-96-8	120	1.45	ND		1	WG2426925
Trichlorofluoromethane	75-69-4	137.40	1.44	ND		1	WG2426925
Dichlorodifluoromethane	75-71-8	120.92	1.33	2.72		1	WG2426925
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.92	ND		1	WG2426925
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.76	ND		1	WG2426925
Heptane	142-82-5	100	1.55	ND		1	WG2426925
Hexachloro-1,3-butadiene	87-68-3	261	2.85	ND		1	WG2426925
n-Hexane	110-54-3	86.20	1.68	ND		1	WG2426925
Isopropylbenzene	98-82-8	120.20	1.18	ND		1	WG2426925
Methylene Chloride	75-09-2	84.90	1.95	ND		1	WG2426925
Methyl Butyl Ketone	591-78-6	100	1.81	ND		1	WG2426925
2-Butanone (MEK)	78-93-3	72.10	1.14	ND		1	WG2426925
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.45	ND		1	WG2426925
Methyl methacrylate	80-62-6	100.12	2.31	ND		1	WG2426925
MTBE	1634-04-4	88.10	0.976	ND		1	WG2426925
Naphthalene	91-20-3	128	10.8	ND		1	WG2426925
2-Propanol	67-63-0	60.10	5.58	ND		1	WG2426925
Propene	115-07-1	42.10	1.23	ND		1	WG2426925
Styrene	100-42-5	104	1.14	ND		1	WG2426925
1,1,2,2-Tetrachloroethane	79-34-5	168	1.59	ND		1	WG2426925
Tetrachloroethylene	127-18-4	166	2510	104000		1000	WG2428112
Tetrahydrofuran	109-99-9	72.10	1.61	ND		1	WG2426925
Toluene	108-88-3	92.10	1.63	1.91		1	WG2426925
1,2,4-Trichlorobenzene	120-82-1	181	11.4	ND		1	WG2426925

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.30	ND		1	WG2426925
1,1,2-Trichloroethane	79-00-5	133	1.24	ND		1	WG2426925
Trichloroethylene	79-01-6	131	24.3	6430		20	WG2427754
1,2,4-Trimethylbenzene	95-63-6	120	1.52	ND		1	WG2426925
1,3,5-Trimethylbenzene	108-67-8	120	1.39	ND		1	WG2426925
2,2,4-Trimethylpentane	540-84-1	114.22	1.40	4.31		1	WG2426925
Vinyl chloride	75-01-4	62.50	0.703	ND		1	WG2426925
Vinyl Bromide	593-60-2	106.95	1.09	ND		1	WG2426925
Vinyl acetate	108-05-4	86.10	1.14	ND		1	WG2426925
Xylenes, Total	1330-20-7	106.16	1.29	2.33		1	WG2426925
m&p-Xylene	179601-23-1	106	2.51	ND		1	WG2426925
o-Xylene	95-47-6	106	1.28	ND		1	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*105*		*60.0-140*	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*83.3*		*60.0-140*	WG2427754
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*109*		*60.0-140*	WG2428112

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	4.11	15.3		1	WG2426925
Allyl chloride	107-05-1	76.53	1.94	ND		1	WG2426925
Benzene	71-43-2	78.10	1.17	ND		1	WG2426925
Benzyl Chloride	100-44-7	127	1.54	ND		1	WG2426925
Bromodichloromethane	75-27-4	164	1.56	ND		1	WG2426925
Bromoform	75-25-2	253	2.61	ND		1	WG2426925
Bromomethane	74-83-9	94.90	1.21	ND		1	WG2426925
1,3-Butadiene	106-99-0	54.10	1.17	ND		1	WG2426925
Carbon disulfide	75-15-0	76.10	1.66	ND		1	WG2426925
Carbon tetrachloride	56-23-5	154	1.57	ND		1	WG2426925
Chlorobenzene	108-90-7	113	1.82	ND		1	WG2426925
Chloroethane	75-00-3	64.50	0.968	ND		1	WG2426925
Chloroform	67-66-3	119	1.69	ND		1	WG2426925
Chloromethane	74-87-3	50.50	0.758	ND		1	WG2426925
2-Chlorotoluene	95-49-8	126	1.35	ND		1	WG2426925
Cyclohexane	110-82-7	84.20	1.95	ND		1	WG2426925
Dibromochloromethane	124-48-1	208	1.97	ND		1	WG2426925
1,2-Dibromoethane	106-93-4	188	1.77	ND		1	WG2426925
1,2-Dichlorobenzene	95-50-1	147	1.47	ND		1	WG2426925
1,3-Dichlorobenzene	541-73-1	147	1.51	ND		1	WG2426925
1,4-Dichlorobenzene	106-46-7	147	1.54	ND		1	WG2426925
1,2-Dichloroethane	107-06-2	99	0.984	ND		1	WG2426925
1,1-Dichloroethane	75-34-3	98	0.950	ND		1	WG2426925
1,1-Dichloroethene	75-35-4	96.90	0.987	ND		1	WG2426925
cis-1,2-Dichloroethene	156-59-2	96.90	1.05	205		1	WG2426925
trans-1,2-Dichloroethene	156-60-5	96.90	0.971	13.8		1	WG2426925
1,2-Dichloropropane	78-87-5	113	1.16	ND		1	WG2426925
cis-1,3-Dichloropropene	10061-01-5	111	1.13	ND		1	WG2426925
trans-1,3-Dichloropropene	10061-02-6	111	1.20	ND		1	WG2426925
1,4-Dioxane	123-91-1	88.10	1.97	ND		1	WG2426925
Ethanol	64-17-5	46.10	14.9	18.0		1	WG2426925
Ethylbenzene	100-41-4	106	1.12	ND		1	WG2426925
4-Ethyltoluene	622-96-8	120	1.45	1.54		1	WG2426925
Trichlorofluoromethane	75-69-4	137.40	1.44	ND		1	WG2426925
Dichlorodifluoromethane	75-71-8	120.92	1.33	2.14		1	WG2426925
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.92	ND		1	WG2426925
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.76	ND		1	WG2426925
Heptane	142-82-5	100	1.55	ND		1	WG2426925
Hexachloro-1,3-butadiene	87-68-3	261	2.85	ND		1	WG2426925
n-Hexane	110-54-3	86.20	1.68	ND		1	WG2426925
Isopropylbenzene	98-82-8	120.20	1.18	ND		1	WG2426925
Methylene Chloride	75-09-2	84.90	1.95	ND		1	WG2426925
Methyl Butyl Ketone	591-78-6	100	1.81	ND		1	WG2426925
2-Butanone (MEK)	78-93-3	72.10	1.14	ND		1	WG2426925
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.45	ND		1	WG2426925
Methyl methacrylate	80-62-6	100.12	2.31	ND		1	WG2426925
MTBE	1634-04-4	88.10	0.976	ND		1	WG2426925
Naphthalene	91-20-3	128	10.8	ND		1	WG2426925
2-Propanol	67-63-0	60.10	5.58	ND		1	WG2426925
Propene	115-07-1	42.10	1.23	ND		1	WG2426925
Styrene	100-42-5	104	1.14	ND		1	WG2426925
1,1,2,2-Tetrachloroethane	79-34-5	168	1.59	ND		1	WG2426925
Tetrachloroethylene	127-18-4	166	502	10500		200	WG2428112
Tetrahydrofuran	109-99-9	72.10	1.61	ND		1	WG2426925
Toluene	108-88-3	92.10	1.63	ND		1	WG2426925
1,2,4-Trichlorobenzene	120-82-1	181	11.4	ND		1	WG2426925

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.30	ND		1	WG2426925
1,1,2-Trichloroethane	79-00-5	133	1.24	ND		1	WG2426925
Trichloroethylene	79-01-6	131	1.22	508		1	WG2426925
1,2,4-Trimethylbenzene	95-63-6	120	1.52	1.55		1	WG2426925
1,3,5-Trimethylbenzene	108-67-8	120	1.39	ND		1	WG2426925
2,2,4-Trimethylpentane	540-84-1	114.22	1.40	ND		1	WG2426925
Vinyl chloride	75-01-4	62.50	0.703	ND		1	WG2426925
Vinyl Bromide	593-60-2	106.95	1.09	ND		1	WG2426925
Vinyl acetate	108-05-4	86.10	1.14	ND		1	WG2426925
Xylenes, Total	1330-20-7	106.16	1.29	2.77		1	WG2426925
m&p-Xylene	179601-23-1	106	2.51	ND		1	WG2426925
o-Xylene	95-47-6	106	1.28	ND		1	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*103*		*60.0-140*	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*107*		*60.0-140*	WG2428112

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	4.11	22.1		1	WG2426925
Allyl chloride	107-05-1	76.53	1.94	ND		1	WG2426925
Benzene	71-43-2	78.10	1.17	6.01		1	WG2426925
Benzyl Chloride	100-44-7	127	1.54	ND		1	WG2426925
Bromodichloromethane	75-27-4	164	1.56	ND		1	WG2426925
Bromoform	75-25-2	253	2.61	ND		1	WG2426925
Bromomethane	74-83-9	94.90	1.21	ND		1	WG2426925
1,3-Butadiene	106-99-0	54.10	1.17	ND		1	WG2426925
Carbon disulfide	75-15-0	76.10	1.66	ND		1	WG2426925
Carbon tetrachloride	56-23-5	154	1.57	ND		1	WG2426925
Chlorobenzene	108-90-7	113	1.82	ND		1	WG2426925
Chloroethane	75-00-3	64.50	0.968	ND		1	WG2426925
Chloroform	67-66-3	119	1.69	ND		1	WG2426925
Chloromethane	74-87-3	50.50	0.758	ND		1	WG2426925
2-Chlorotoluene	95-49-8	126	1.35	ND		1	WG2426925
Cyclohexane	110-82-7	84.20	1.95	ND		1	WG2426925
Dibromochloromethane	124-48-1	208	1.97	ND		1	WG2426925
1,2-Dibromoethane	106-93-4	188	1.77	ND		1	WG2426925
1,2-Dichlorobenzene	95-50-1	147	1.47	ND		1	WG2426925
1,3-Dichlorobenzene	541-73-1	147	1.51	ND		1	WG2426925
1,4-Dichlorobenzene	106-46-7	147	1.54	ND		1	WG2426925
1,2-Dichloroethane	107-06-2	99	0.984	ND		1	WG2426925
1,1-Dichloroethane	75-34-3	98	0.950	ND		1	WG2426925
1,1-Dichloroethene	75-35-4	96.90	0.987	3.28		1	WG2426925
cis-1,2-Dichloroethene	156-59-2	96.90	21.0	2510		20	WG2427754
trans-1,2-Dichloroethene	156-60-5	96.90	0.971	161		1	WG2426925
1,2-Dichloropropane	78-87-5	113	1.16	ND		1	WG2426925
cis-1,3-Dichloropropene	10061-01-5	111	1.13	ND		1	WG2426925
trans-1,3-Dichloropropene	10061-02-6	111	1.20	ND		1	WG2426925
1,4-Dioxane	123-91-1	88.10	1.97	ND		1	WG2426925
Ethanol	64-17-5	46.10	14.9	34.5		1	WG2426925
Ethylbenzene	100-41-4	106	1.12	ND		1	WG2426925
4-Ethyltoluene	622-96-8	120	1.45	1.63		1	WG2426925
Trichlorofluoromethane	75-69-4	137.40	1.44	1.45		1	WG2426925
Dichlorodifluoromethane	75-71-8	120.92	1.33	1.99		1	WG2426925
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.92	ND		1	WG2426925
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.76	ND		1	WG2426925
Heptane	142-82-5	100	1.55	1.60		1	WG2426925
Hexachloro-1,3-butadiene	87-68-3	261	2.85	ND		1	WG2426925
n-Hexane	110-54-3	86.20	1.68	2.26		1	WG2426925
Isopropylbenzene	98-82-8	120.20	1.18	ND		1	WG2426925
Methylene Chloride	75-09-2	84.90	1.95	ND		1	WG2426925
Methyl Butyl Ketone	591-78-6	100	1.81	ND		1	WG2426925
2-Butanone (MEK)	78-93-3	72.10	1.14	ND		1	WG2426925
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.45	ND		1	WG2426925
Methyl methacrylate	80-62-6	100.12	2.31	ND		1	WG2426925
MTBE	1634-04-4	88.10	0.976	ND		1	WG2426925
Naphthalene	91-20-3	128	10.8	ND		1	WG2426925
2-Propanol	67-63-0	60.10	5.58	7.77		1	WG2426925
Propene	115-07-1	42.10	1.23	ND		1	WG2426925
Styrene	100-42-5	104	1.14	ND		1	WG2426925
1,1,2,2-Tetrachloroethane	79-34-5	168	1.59	ND		1	WG2426925
Tetrachloroethylene	127-18-4	166	502	34800		200	WG2428112
Tetrahydrofuran	109-99-9	72.10	1.61	ND		1	WG2426925
Toluene	108-88-3	92.10	1.63	ND		1	WG2426925
1,2,4-Trichlorobenzene	120-82-1	181	11.4	ND		1	WG2426925

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	1.30	ND		1	WG2426925
1,1,2-Trichloroethane	79-00-5	133	1.24	ND		1	WG2426925
Trichloroethylene	79-01-6	131	24.3	1880		20	WG2427754
1,2,4-Trimethylbenzene	95-63-6	120	1.52	1.76		1	WG2426925
1,3,5-Trimethylbenzene	108-67-8	120	1.39	ND		1	WG2426925
2,2,4-Trimethylpentane	540-84-1	114.22	1.40	8.27		1	WG2426925
Vinyl chloride	75-01-4	62.50	0.703	ND		1	WG2426925
Vinyl Bromide	593-60-2	106.95	1.09	ND		1	WG2426925
Vinyl acetate	108-05-4	86.10	1.14	ND		1	WG2426925
Xylenes, Total	1330-20-7	106.16	1.29	3.67		1	WG2426925
m&p-Xylene	179601-23-1	106	2.51	ND		1	WG2426925
o-Xylene	95-47-6	106	1.28	1.34		1	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*103*		*60.0-140*	WG2426925
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*81.5*		*60.0-140*	WG2427754
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*109*		*60.0-140*	WG2428112

Method Blank (MB)

(MB) R4163740-3 12/31/24 13:18

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Acetone	U		1.24	2.97
Allyl chloride	U		0.582	0.626
Benzene	U		0.351	0.639
Benzyl Chloride	U		0.461	1.04
Bromodichloromethane	U		0.466	1.34
Bromoform	U		0.781	6.52
Bromomethane	U		0.364	0.776
1,3-Butadiene	U		0.350	4.43
Carbon disulfide	U		0.498	1.24
Carbon tetrachloride	U		0.470	1.26
Chlorobenzene	U		0.545	0.924
Chloroethane	U		0.290	0.528
Chloroform	U		0.506	0.973
Chloromethane	U		0.227	0.413
2-Chlorotoluene	U		0.406	1.03
Cyclohexane	U		0.585	0.689
Dibromochloromethane	U		0.592	1.70
1,2-Dibromoethane	U		0.531	1.54
1,2-Dichlorobenzene	U		0.441	1.20
1,3-Dichlorobenzene	U		0.453	1.20
1,4-Dichlorobenzene	U		0.462	1.20
1,2-Dichloroethane	U		0.296	0.810
1,1-Dichloroethane	U		0.285	0.802
1,1-Dichloroethene	U		0.296	0.793
cis-1,2-Dichloroethene	U		0.315	0.793
trans-1,2-Dichloroethene	U		0.291	0.793
1,2-Dichloropropane	U		0.348	0.924
cis-1,3-Dichloropropene	U		0.337	0.908
trans-1,3-Dichloropropene	U		0.361	0.908
1,4-Dioxane	U		0.591	2.27
Ethanol	U		4.47	4.71
Ethylbenzene	U		0.337	0.867
4-Ethyltoluene	U		0.435	0.982
Trichlorofluoromethane	U		0.433	1.12
Dichlorodifluoromethane	U		0.399	0.989
1,1,2-Trichlorotrifluoroethane	U		0.576	1.53
1,2-Dichlorotetrafluoroethane	U		0.529	1.40
Heptane	U		0.466	0.818
Hexachloro-1,3-butadiene	U		0.854	6.73
n-Hexane	U		0.504	2.22

Method Blank (MB)

(MB) R4163740-3 12/31/24 13:18

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
Isopropylbenzene	U		0.355	0.983
Methylene Chloride	U		0.587	0.694
Methyl Butyl Ketone	U		0.544	5.11
2-Butanone (MEK)	U		0.342	3.69
4-Methyl-2-pentanone (MIBK)	U		0.434	5.12
Methyl methacrylate	U		0.692	0.819
MTBE	U		0.293	0.721
Naphthalene	U		3.23	3.30
2-Propanol	U		1.67	3.07
Propene	U		0.368	2.15
Styrene	U		0.341	1.70
1,1,2,2-Tetrachloroethane	U		0.478	1.37
Tetrahydrofuran	U		0.484	0.590
Toluene	U		0.490	1.88
1,2,4-Trichlorobenzene	U		3.42	4.66
1,1,1-Trichloroethane	U		0.391	1.09
1,1,2-Trichloroethane	U		0.372	1.09
Trichloroethylene	U		0.364	1.07
1,2,4-Trimethylbenzene	U		0.455	0.982
1,3,5-Trimethylbenzene	U		0.419	0.982
2,2,4-Trimethylpentane	U		0.420	0.934
Vinyl chloride	U		0.211	0.511
Vinyl Bromide	U		0.328	0.875
Vinyl acetate	U		0.341	2.22
Xylenes, Total	U		0.385	2.61
m&p-Xylene	U		0.754	1.73
o-Xylene	U		0.385	0.867
(S) 1,4-Bromofluorobenzene	*101*			*60.0-140*

L1813460-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-01 12/31/24 14:18 • (DUP) R4163740-4 12/31/24 15:06

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Acetone	97.2	99.8	1	2.65		25
Allyl chloride	ND	ND	1	0.000		25
Benzene	ND	ND	1	0.000		25
Benzyl Chloride	ND	ND	1	0.000		25
Bromodichloromethane	ND	ND	1	0.000		25

L1813460-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-01 12/31/24 14:18 • (DUP) R4163740-4 12/31/24 15:06

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromoform	ND	ND	1	0.000		25
Bromomethane	ND	ND	1	0.000		25
1,3-Butadiene	ND	ND	1	0.000		25
Carbon disulfide	ND	ND	1	0.000		25
Carbon tetrachloride	ND	ND	1	0.000		25
Chlorobenzene	ND	ND	1	0.000		25
Chloroethane	ND	ND	1	0.000		25
Chloroform	ND	ND	1	0.000		25
Chloromethane	1.12	1.15	1	2.55		25
2-Chlorotoluene	ND	ND	1	0.000		25
Cyclohexane	31.1	31.0	1	0.222		25
Dibromochloromethane	ND	ND	1	0.000		25
1,2-Dibromoethane	ND	ND	1	0.000		25
1,2-Dichlorobenzene	ND	ND	1	0.000		25
1,3-Dichlorobenzene	ND	ND	1	0.000		25
1,4-Dichlorobenzene	ND	ND	1	0.000		25
1,2-Dichloroethane	ND	ND	1	0.000		25
1,1-Dichloroethane	ND	ND	1	0.678		25
1,1-Dichloroethene	ND	ND	1	0.000		25
cis-1,2-Dichloroethene	ND	ND	1	0.000		25
trans-1,2-Dichloroethene	ND	ND	1	0.000		25
1,2-Dichloropropane	ND	ND	1	0.000		25
cis-1,3-Dichloropropene	ND	ND	1	0.000		25
trans-1,3-Dichloropropene	ND	ND	1	0.000		25
1,4-Dioxane	ND	ND	1	0.000		25
Ethanol	75.4	76.4	1	1.24		25
Ethylbenzene	ND	ND	1	1.92		25
4-Ethyltoluene	ND	ND	1	5.53		25
Trichlorofluoromethane	ND	ND	1	0.922		25
Dichlorodifluoromethane	2.52	2.63	1	4.22		25
1,1,2-Trichlorotrifluoroethane	ND	ND	1	0.000		25
1,2-Dichlorotetrafluoroethane	ND	ND	1	0.000		25
Heptane	3.18	3.21	1	0.896		25
Hexachloro-1,3-butadiene	ND	ND	1	0.000		25
n-Hexane	2.99	3.06	1	2.33		25
Isopropylbenzene	ND	ND	1	0.000		25
Methylene Chloride	ND	ND	1	0.000		25
Methyl Butyl Ketone	ND	ND	1	0.000		25
2-Butanone (MEK)	54.6	55.1	1	1.08		25

L1813460-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-01 12/31/24 14:18 • (DUP) R4163740-4 12/31/24 15:06

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
4-Methyl-2-pentanone (MIBK)	2.70	2.78	1	2.69		25
Methyl methacrylate	ND	ND	1	0.000		25
MTBE	14.4	14.8	1	2.96		25
Naphthalene	ND	ND	1	0.000		25
2-Propanol	46.7	47.7	1	2.08		25
Propene	ND	ND	1	0.000		25
Styrene	ND	ND	1	0.000		25
1,1,2,2-Tetrachloroethane	ND	ND	1	0.000		25
Tetrahydrofuran	ND	ND	1	0.000		25
Toluene	36.8	37.4	1	1.73		25
1,2,4-Trichlorobenzene	ND	ND	1	0.000		25
1,1,1-Trichloroethane	ND	ND	1	0.000		25
1,1,2-Trichloroethane	ND	ND	1	0.000		25
Trichloroethylene	ND	ND	1	0.000		25
1,2,4-Trimethylbenzene	ND	1.52	1	1.30		25
1,3,5-Trimethylbenzene	ND	ND	1	0.000		25
2,2,4-Trimethylpentane	ND	ND	1	0.000		25
Vinyl chloride	ND	ND	1	0.000		25
Vinyl Bromide	ND	ND	1	0.000		25
Vinyl acetate	ND	ND	1	0.000		25
Xylenes, Total	ND	4.60	1	200	P1	25
m&p-Xylene	3.49	3.58	1	2.45		25
o-Xylene	ND	ND	1	1.72		25
(S) 1,4-Bromofluorobenzene		*101*				*60.0-140*

L1813460-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-02 12/31/24 15:54 • (DUP) R4163740-5 12/31/24 16:41

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Acetone	120	122	1	2.36		25
Allyl chloride	ND	ND	1	0.000		25
Benzene	ND	ND	1	0.000		25
Benzyl Chloride	ND	ND	1	0.000		25
Bromodichloromethane	ND	ND	1	0.000		25
Bromoform	ND	ND	1	0.000		25
Bromomethane	ND	ND	1	0.000		25
1,3-Butadiene	ND	ND	1	0.000		25

L1813460-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-02 12/31/24 15:54 • (DUP) R4163740-5 12/31/24 16:41

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Carbon disulfide	ND	ND	1	0.000		25
Carbon tetrachloride	ND	ND	1	0.000		25
Chlorobenzene	ND	ND	1	0.000		25
Chloroethane	ND	ND	1	0.000		25
Chloroform	ND	ND	1	0.000		25
Chloromethane	1.11	1.14	1	2.20		25
2-Chlorotoluene	ND	ND	1	0.000		25
Cyclohexane	39.3	39.9	1	1.74		25
Dibromochloromethane	ND	ND	1	0.000		25
1,2-Dibromoethane	ND	ND	1	0.000		25
1,2-Dichlorobenzene	ND	ND	1	0.000		25
1,3-Dichlorobenzene	ND	ND	1	0.000		25
1,4-Dichlorobenzene	ND	ND	1	0.000		25
1,2-Dichloroethane	ND	ND	1	0.000		25
1,1-Dichloroethane	ND	ND	1	0.673		25
1,1-Dichloroethene	ND	ND	1	0.000		25
cis-1,2-Dichloroethene	ND	ND	1	0.000		25
trans-1,2-Dichloroethene	ND	ND	1	0.000		25
1,2-Dichloropropane	ND	ND	1	0.000		25
cis-1,3-Dichloropropene	ND	ND	1	0.000		25
trans-1,3-Dichloropropene	ND	ND	1	0.000		25
1,4-Dioxane	ND	ND	1	0.000		25
Ethanol	84.5	86.4	1	2.21		25
Ethylbenzene	ND	ND	1	0.803		25
4-Ethyltoluene	ND	ND	1	0.758		25
Trichlorofluoromethane	ND	ND	1	1.90		25
Dichlorodifluoromethane	2.95	2.91	1	1.35		25
1,1,2-Trichlorotrifluoroethane	ND	ND	1	0.000		25
1,2-Dichlorotetrafluoroethane	ND	ND	1	0.000		25
Heptane	3.93	4.04	1	2.77		25
Hexachloro-1,3-butadiene	ND	ND	1	0.000		25
n-Hexane	3.70	3.74	1	0.948		25
Isopropylbenzene	ND	ND	1	0.000		25
Methylene Chloride	ND	ND	1	3.83		25
Methyl Butyl Ketone	ND	ND	1	0.000		25
2-Butanone (MEK)	69.6	71.4	1	2.51		25
4-Methyl-2-pentanone (MIBK)	3.55	3.59	1	1.15		25
Methyl methacrylate	ND	ND	1	0.000		25
MTBE	18.4	18.8	1	1.74		25

L1813460-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1813460-02 12/31/24 15:54 • (DUP) R4163740-5 12/31/24 16:41

Analyte	Original Result ug/m3	DUP Result ug/m3	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Naphthalene	ND	ND	1	0.000		25
2-Propanol	53.8	54.3	1	0.909		25
Propene	ND	ND	1	0.000		25
Styrene	ND	ND	1	0.000		25
1,1,2,2-Tetrachloroethane	ND	ND	1	0.000		25
Tetrahydrofuran	ND	ND	1	0.000		25
Toluene	46.3	46.7	1	0.810		25
1,2,4-Trichlorobenzene	ND	ND	1	0.000		25
1,1,1-Trichloroethane	ND	ND	1	0.000		25
1,1,2-Trichloroethane	ND	ND	1	0.000		25
Trichloroethylene	ND	ND	1	0.000		25
1,2,4-Trimethylbenzene	1.86	1.89	1	1.83		25
1,3,5-Trimethylbenzene	ND	ND	1	1.21		25
2,2,4-Trimethylpentane	ND	ND	1	0.000		25
Vinyl chloride	ND	ND	1	0.000		25
Vinyl Bromide	ND	ND	1	0.000		25
Vinyl acetate	ND	ND	1	0.000		25
Xylenes, Total	ND	5.56	1	200	P1	25
m&p-Xylene	4.33	4.34	1	0.200		25
o-Xylene	ND	ND	1	1.79		25
(S) 1,4-Bromofluorobenzene		*101*				*60.0-140*

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

(LCS) R4163740-1 12/31/24 09:01 • (LCSD) R4163740-2 12/31/24 09:50

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	8.91	9.46	9.34	106	105	70.0-130			1.26	25
Allyl chloride	11.7	13.0	12.3	111	105	70.0-130			5.94	25
Benzene	12.0	12.9	12.9	107	108	70.0-130			0.495	25
Benzyl Chloride	19.5	19.5	19.1	100	98.1	70.0-152			2.15	25
Bromodichloromethane	25.2	26.8	26.7	106	106	70.0-130			0.251	25
Bromoform	38.8	37.6	36.9	96.8	95.2	70.0-130			1.67	25
Bromomethane	14.6	14.8	14.7	102	101	70.0-130			0.788	25
1,3-Butadiene	8.30	8.50	8.30	102	100	70.0-130			2.37	25
Carbon disulfide	23.3	25.4	25.1	109	107	70.0-130			1.23	25
Carbon tetrachloride	23.6	23.9	23.6	101	99.7	70.0-130			1.33	25
Chlorobenzene	17.3	18.3	18.2	105	105	70.0-130			0.253	25
Chloroethane	9.89	9.79	9.76	98.9	98.7	70.0-130			0.270	25

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

(LCS) R4163740-1 12/31/24 09:01 • (LCSD) R4163740-2 12/31/24 09:50

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroform	18.3	19.3	19.2	106	105	70.0-130			0.253	25
Chloromethane	7.75	8.61	8.22	111	106	70.0-130			4.66	25
2-Chlorotoluene	19.3	21.1	20.6	109	107	70.0-130			2.47	25
Cyclohexane	12.9	13.3	13.3	103	103	70.0-130			0.000	25
Dibromochloromethane	31.9	32.6	32.2	102	101	70.0-130			1.05	25
1,2-Dibromoethane	28.8	30.4	30.5	105	106	70.0-130			0.505	25
1,2-Dichlorobenzene	22.5	23.9	23.7	106	105	70.0-130			0.757	25
1,3-Dichlorobenzene	22.5	24.1	24.0	107	106	70.0-130			0.500	25
1,4-Dichlorobenzene	22.5	23.9	24.1	106	107	70.0-130			0.751	25
1,2-Dichloroethane	15.2	16.2	16.2	107	107	70.0-130			0.000	25
1,1-Dichloroethane	15.0	16.2	15.9	108	106	70.0-130			2.00	25
1,1-Dichloroethene	14.9	16.1	15.7	108	106	70.0-130			2.25	25
cis-1,2-Dichloroethene	14.9	16.0	15.7	107	106	70.0-130			1.75	25
trans-1,2-Dichloroethene	14.9	15.8	15.8	106	106	70.0-130			0.000	25
1,2-Dichloropropane	17.3	19.0	18.8	110	109	70.0-130			0.978	25
cis-1,3-Dichloropropene	17.0	18.3	18.1	108	106	70.0-130			1.25	25
trans-1,3-Dichloropropene	17.0	18.0	17.7	106	104	70.0-130			1.53	25
1,4-Dioxane	13.5	14.4	14.5	107	107	70.0-140			0.498	25
Ethanol	7.07	7.30	7.15	103	101	55.0-148			2.09	25
Ethylbenzene	16.3	17.4	17.0	107	105	70.0-130			2.02	25
4-Ethyltoluene	18.4	19.5	19.2	106	105	70.0-130			1.52	25
Trichlorofluoromethane	21.1	22.0	21.7	105	103	70.0-130			1.54	25
Dichlorodifluoromethane	18.5	17.3	16.6	93.1	89.3	64.0-139			4.09	25
1,1,2-Trichlorotrifluoroethane	28.7	29.9	29.7	104	103	70.0-130			0.772	25
1,2-Dichlorotetrafluoroethane	26.2	28.8	27.8	110	106	70.0-130			3.71	25
Heptane	15.3	16.1	16.1	105	105	70.0-130			0.000	25
Hexachloro-1,3-butadiene	40.0	42.0	41.5	105	104	70.0-151			1.02	25
n-Hexane	13.2	13.6	13.6	103	103	70.0-130			0.000	25
Isopropylbenzene	18.4	20.5	19.9	111	108	70.0-130			3.17	25
Methylene Chloride	13.0	13.4	13.4	103	103	70.0-130			0.259	25
Methyl Butyl Ketone	15.3	17.1	16.5	111	108	70.0-149			3.41	25
2-Butanone (MEK)	11.1	11.7	11.8	106	107	70.0-130			0.753	25
4-Methyl-2-pentanone (MIBK)	15.4	16.5	16.4	107	107	70.0-139			0.498	25
Methyl methacrylate	15.4	15.8	15.8	103	103	70.0-130			0.259	25
MTBE	13.5	14.2	13.8	105	102	70.0-130			2.82	25
Naphthalene	19.6	21.3	21.3	109	108	70.0-159			0.246	25
2-Propanol	9.22	9.56	9.46	104	103	70.0-139			1.03	25
Propene	6.46	6.75	6.72	105	104	64.0-144			0.512	25
Styrene	31.9	34.9	34.4	109	108	70.0-130			1.35	25
1,1,2,2-Tetrachloroethane	25.8	28.2	27.6	110	107	70.0-130			2.21	25

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

(LCS) R4163740-1 12/31/24 09:01 • (LCSD) R4163740-2 12/31/24 09:50

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrahydrofuran	11.1	11.5	11.5	104	104	70.0-137			0.000	25
Toluene	14.1	14.8	14.8	105	105	70.0-130			0.255	25
1,2,4-Trichlorobenzene	27.8	29.9	29.2	108	105	70.0-160			2.25	25
1,1,1-Trichloroethane	20.4	21.2	21.1	104	103	70.0-130			0.257	25
1,1,2-Trichloroethane	20.4	21.6	21.4	106	105	70.0-130			0.759	25
Trichloroethylene	20.1	20.9	20.9	104	104	70.0-130			0.000	25
1,2,4-Trimethylbenzene	18.4	19.3	19.3	105	105	70.0-130			0.000	25
1,3,5-Trimethylbenzene	18.4	19.9	19.4	108	105	70.0-130			2.50	25
2,2,4-Trimethylpentane	17.5	18.6	18.5	106	106	70.0-130			0.252	25
Vinyl chloride	9.59	10.0	10.3	105	108	70.0-130			2.76	25
Vinyl Bromide	16.4	16.8	16.3	102	99.2	70.0-130			3.17	25
Vinyl acetate	13.2	13.2	13.5	100	102	70.0-130			1.84	25
Xylenes, Total	49.1	52.1	51.7	106	105	70.0-130			0.837	25
m&p-Xylene	32.5	34.9	34.4	107	106	70.0-130			1.50	25
o-Xylene	16.3	17.3	17.2	106	106	70.0-130			0.755	25
(S) 1,4-Bromofluorobenzene				*102*	*100*	*60.0-140*				

Method Blank (MB)

(MB) R4164071-3 01/02/25 12:39

Analyte	MB Result ug/m3	MB Qualifier	MB MDL ug/m3	MB RDL ug/m3
cis-1,2-Dichloroethene	U		0.315	0.793
Trichloroethylene	U		0.364	1.07
(S) 1,4-Bromofluorobenzene	*87.3*			*60.0-140*

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

(LCS) R4164071-1 01/02/25 11:42 • (LCSD) R4164071-2 01/02/25 12:12

Analyte	Spike Amount ug/m3	LCS Result ug/m3	LCSD Result ug/m3	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	14.9	13.1	13.0	88.3	87.7	70.0-130			0.606	25
Trichloroethylene	20.1	19.7	19.6	98.1	97.6	70.0-130			0.545	25
(S) 1,4-Bromofluorobenzene				*105*	*106*	*60.0-140*				

Method Blank (MB)

(MB) R4164325-3 01/03/25 10:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/m3		ug/m3	ug/m3
Tetrachloroethylene	U		0.754	1.36
(S) 1,4-Bromofluorobenzene	*103*			*60.0-140*

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

(LCS) R4164325-1 01/03/25 09:07 • (LCSD) R4164325-2 01/03/25 09:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/m3	ug/m3	ug/m3	%	%	%			%	%
Tetrachloroethylene	25.5	25.9	26.4	102	104	70.0-130			1.82	25
(S) 1,4-Bromofluorobenzene				*107*	*108*	*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.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

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

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

M219

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Lab

Scan QR code for instructions

Company Name: GZA GeoEnvironmental - Brookfield, WI	Contact/Report To: ~~Heidi Woelfel~~ KEVIN HEDINGER
Street Address: 17975 West Sarah Lane Brookfield, WI 53045	Phone #: 262-754-2597
City, State Zip:	E-Mail: ~~Heidi.Woelfel@gza.com~~ KEVIN.HEDINGER@GZA.COM
Customer Project #: 20.0156045.01	Cc E-Mail:
Project Name: LEATHER RICH	Invoice to:
Site Collection Info/Facility ID (as applicable): GZABWI-20.0156045.01	Invoice E-Mail:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [✓] CT [ ] ET	Purchase Order # (if applicable):
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Quote #:
Regulatory Program (CAA, RCRA, etc.) as applicable:	State origin of sample(s): WI
Rush (Pre-approval required): 2 Day 3 day 5 day Other	Permit # as applicable:
Date Results Requested:	Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

Lab Use Only

Proj. Manager: 341 • John Hawkins

AcctNum / Client ID: GZABWI

Table #:

Profile / Template: T265812

Prelog / Bottle Ord. ID: P1121971

12/18

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment
VP-2	SV	28483	16560	12/30/24	1007	12/30/24	1045	-27.5	-2				X				L1813471-01
SS-2R	SV	28292	12052	"	1022	"	1051	-28.5	-1.5				X				-02
SS-1R	SV	14699	11222	"	1047	"	1117	-28	-1.5				X				-03

Sample Receipt Checklist

COC Seal Present/Intact: Y/N Airs 3 6L 1.4L
COC Signed/Accurate: Y/N Size: 1L
Bottles arrive intact: Y/N Tage Color: G W P B
Correct bottles used: Y/N Tubing Shunt

Unused:

T/P#:

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name: CHAIS AINSWORTH
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time: 12/30/24 1300	Received by/Company: (Signature) PER FED EX	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 12/31 0900

Tracking Number: 4072 9203 7639

Delivered by: In- Person Courier FedEX UPS Other

Page: 1 of: 1

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