

Mulcahy, Connor P - DNR

From: Travis W. Peterson <tpeterson@kapurinc.com>
Sent: Friday, February 23, 2024 2:10 PM
To: Mulcahy, Connor P - DNR
Cc: robert3bach@gmail.com
Subject: RE: Mercury Marine Plant No. 1 (02-46-588930)

Follow Up Flag: Follow up
Flag Status: Flagged

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Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Connor.

We are currently awaiting receipt of lab results from 24 hr controlled indoor air samples collected from 2/19/2024 to 2/20/2024. We were expecting the results today, however, we now anticipate the results being available this coming Monday 2/26/2024. Upon receipt of the analytical results we will forward the lab report to the DNR.

Please Note we are still awaiting any information from the DNR regarding potential offsite contaminant sources to the north of the Fox Run development site across Western Avenue. Please provide the information pertaining to these releases as soon as practical given our previous requests, we feel this information may be very important to the investigation activities we are currently performing onsite.”

Regards,



Travis W. Peterson

Associate / Economic Development Manager

7711 N Port Washington Road, Milwaukee, Wisconsin 53217

m: 414.254.6358

o: 414.751.7279

kapurinc.com

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#1 Company in the Extra-Large Category. Read more [here](#).

From: Mulcahy, Connor P - DNR <connor.mulcahy@wisconsin.gov>
Sent: Thursday, February 22, 2024 10:52 AM
To: Travis W. Peterson <tpeterson@kapurinc.com>
Subject: Mercury Marine Plant No. 1 (02-46-588930)

Travis,

As we discussed on the phone earlier this morning, please send the DNR an email listing the planned next steps at the Mercury Marine Plant No. 1 site.

The DNR understands that additional indoor air sampling has been conducted at the site. Once you are in receipt of the results, please submit them, including a description of sampling locations, to the DNR as soon as feasible. Consider labelling individual apartment units on figures and data tables in the future to facilitate easier discussion of sample results.

Here is a link to the DNR's presentations and trainings library: [RR Program Presentations & Training Library | | Wisconsin DNR](#). The Nov. 16, 2022 and Oct. 25, 2023 Issues & Trends Webinars both contain useful technical info on why the DNR prefers longer-term passive vapor samplers for the assessment of indoor air when possible.

As you are aware, necessary actions in the Wis. Admin. Code NR 700 process at the site may change based on additional data results.

Thank you for your continued efforts at the site. Please let me know if you have any questions.

Thanks,
Connor

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Connor P. Mulcahy

Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

Phone: 414-704-4348

connor.mulcahy@wisconsin.gov



BLDG D_8

2/20/2024

24 hr

Indoor Air

Vapor

<1.22

Kapur Inc - Milwaukee, WI

Sample Delivery Group: L1708652

Samples Received: 02/23/2024

Project Number:

Description: Fox Run

Report To: Travis Peterson
7711 N. Port Washington Road
Milwaukee, WI 53217

Entire Report Reviewed By:



Andi R Jones
Project Manager

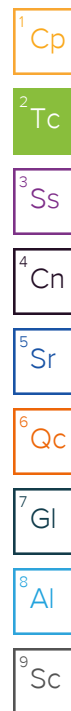
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

BLDG 1 L1708652-01 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233234	1	02/24/24 09:25	02/24/24 09:25	DAH	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

BLDG 2 L1708652-02 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233234	1	02/24/24 09:53	02/24/24 09:53	DAH	Mt. Juliet, TN

4
Cn

5
Sr

BLDG 3 L1708652-03 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233234	1	02/24/24 10:21	02/24/24 10:21	DAH	Mt. Juliet, TN

6
Qc

7
Gl

BLDG 4 L1708652-04 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233234	1	02/24/24 10:49	02/24/24 10:49	DAH	Mt. Juliet, TN

8
Al

9
Sc

BLDG E5 L1708652-05 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233243	1	02/24/24 12:36	02/24/24 12:36	MNP	Mt. Juliet, TN

BLDG E6 L1708652-06 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233243	1	02/24/24 13:20	02/24/24 13:20	MNP	Mt. Juliet, TN

BLDG E7 L1708652-07 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233243	1	02/24/24 14:03	02/24/24 14:03	MNP	Mt. Juliet, TN

BLDG D8 L1708652-08 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
Volatile Organic Compounds (MS) by Method TO-15	WG2233243	1	02/24/24 14:46	02/24/24 14:46	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.



Andi R Jones
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	9.79	23.3		1	WG2233234
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233234
Benzene	71-43-2	78.10	0.238	0.760	1.59	5.08		1	WG2233234
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233234
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233234
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233234
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233234
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233234
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233234
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233234
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233234
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233234
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233234
Chloromethane	74-87-3	50.50	0.343	0.708	0.556	1.15		1	WG2233234
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233234
Cyclohexane	110-82-7	84.20	0.251	0.864	1.16	3.99		1	WG2233234
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233234
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233234
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233234
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233234
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233234
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233234
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233234
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233234
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233234
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	1.25	4.95		1	WG2233234
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233234
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233234
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233234
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233234
Ethanol	64-17-5	46.10	0.883	1.66	36.3	68.4		1	WG2233234
Ethylbenzene	100-41-4	106	0.278	1.21	1.06	4.60		1	WG2233234
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.390	1.91		1	WG2233234
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233234
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	0.463	2.29		1	WG2233234
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233234
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233234
Heptane	142-82-5	100	0.347	1.42	1.72	7.03		1	WG2233234
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233234
n-Hexane	110-54-3	86.20	0.687	2.42	3.92	13.8		1	WG2233234
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233234
Methylene Chloride	75-09-2	84.90	0.326	1.13	0.382	1.33		1	WG2233234
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233234
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	1.36	4.01		1	WG2233234
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2233234
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233234
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233234
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233234
2-Propanol	67-63-0	60.10	0.880	2.16	2.90	7.13		1	WG2233234
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233234
Styrene	100-42-5	104	0.263	1.12	0.455	1.94		1	WG2233234
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233234
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233234
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	0.664	1.96		1	WG2233234
Toluene	108-88-3	92.10	0.290	1.09	6.34	23.9		1	WG2233234
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233234

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233234
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233234
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233234
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.41	6.92		1	WG2233234
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.449	2.20		1	WG2233234
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	1.74	8.13		1	WG2233234
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233234
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233234
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233234
Xylenes, Total	1330-20-7	106.16	0.450	1.95	5.36	23.3		1	WG2233234
m&p-Xylene	179601-23-1	106	0.450	1.95	3.83	16.6		1	WG2233234
o-Xylene	95-47-6	106	0.276	1.20	1.53	6.63		1	WG2233234
<i>(S)</i> 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2233234

- 1 Cp
- 2 Tc
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- 4 Cn
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- 6 Qc
- 7 Gl
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- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	14.1	33.5		1	WG2233234
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233234
Benzene	71-43-2	78.10	0.238	0.760	0.341	1.09		1	WG2233234
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233234
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233234
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233234
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233234
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233234
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233234
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233234
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233234
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233234
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233234
Chloromethane	74-87-3	50.50	0.343	0.708	0.521	1.08		1	WG2233234
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233234
Cyclohexane	110-82-7	84.20	0.251	0.864	0.275	0.947		1	WG2233234
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233234
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233234
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233234
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233234
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233234
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233234
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233234
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233234
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233234
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	5.43	21.5		1	WG2233234
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233234
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233234
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233234
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233234
Ethanol	64-17-5	46.10	0.883	1.66	14.1	26.6		1	WG2233234
Ethylbenzene	100-41-4	106	0.278	1.21	0.570	2.47		1	WG2233234
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.268	1.32		1	WG2233234
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233234
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233234
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233234
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233234
Heptane	142-82-5	100	0.347	1.42	ND	ND		1	WG2233234
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233234
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2233234
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233234
Methylene Chloride	75-09-2	84.90	0.326	1.13	0.896	3.11		1	WG2233234
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233234
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	2.30	6.78		1	WG2233234
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2233234
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233234
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233234
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233234
2-Propanol	67-63-0	60.10	0.880	2.16	2.05	5.04		1	WG2233234
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233234
Styrene	100-42-5	104	0.263	1.12	0.575	2.45		1	WG2233234
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233234
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233234
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	1.41	4.16		1	WG2233234
Toluene	108-88-3	92.10	0.290	1.09	3.06	11.5		1	WG2233234
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233234

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233234
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233234
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233234
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.464	2.28		1	WG2233234
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2233234
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233234
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233234
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233234
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233234
Xylenes, Total	1330-20-7	106.16	0.450	1.95	3.16	13.7		1	WG2233234
m&p-Xylene	179601-23-1	106	0.450	1.95	2.32	10.1		1	WG2233234
o-Xylene	95-47-6	106	0.276	1.20	0.839	3.64		1	WG2233234
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2233234

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	16.4	39.0		1	WG2233234
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233234
Benzene	71-43-2	78.10	0.238	0.760	0.443	1.42		1	WG2233234
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233234
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233234
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233234
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233234
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233234
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233234
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233234
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233234
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233234
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233234
Chloromethane	74-87-3	50.50	0.343	0.708	0.535	1.11		1	WG2233234
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233234
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2233234
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233234
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233234
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233234
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233234
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233234
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233234
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233234
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233234
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233234
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2233234
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233234
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233234
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233234
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233234
Ethanol	64-17-5	46.10	0.883	1.66	21.9	41.3		1	WG2233234
Ethylbenzene	100-41-4	106	0.278	1.21	0.358	1.55		1	WG2233234
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2233234
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233234
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233234
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233234
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233234
Heptane	142-82-5	100	0.347	1.42	ND	ND		1	WG2233234
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233234
n-Hexane	110-54-3	86.20	0.687	2.42	0.939	3.31		1	WG2233234
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233234
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2233234
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233234
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	0.988	2.91		1	WG2233234
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2233234
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233234
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233234
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233234
2-Propanol	67-63-0	60.10	0.880	2.16	5.14	12.6		1	WG2233234
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233234
Styrene	100-42-5	104	0.263	1.12	ND	ND		1	WG2233234
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233234
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233234
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	0.478	1.41		1	WG2233234
Toluene	108-88-3	92.10	0.290	1.09	20.5	77.2		1	WG2233234
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233234

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233234
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233234
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233234
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.318	1.56		1	WG2233234
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2233234
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233234
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233234
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233234
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233234
Xylenes, Total	1330-20-7	106.16	0.450	1.95	1.69	7.34		1	WG2233234
m&p-Xylene	179601-23-1	106	0.450	1.95	1.23	5.33		1	WG2233234
o-Xylene	95-47-6	106	0.276	1.20	0.457	1.98		1	WG2233234
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		102				WG2233234

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	112	266	E	1	WG2233234
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233234
Benzene	71-43-2	78.10	0.238	0.760	11.5	36.7		1	WG2233234
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233234
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233234
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233234
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233234
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233234
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233234
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233234
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233234
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233234
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233234
Chloromethane	74-87-3	50.50	0.343	0.708	ND	ND		1	WG2233234
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233234
Cyclohexane	110-82-7	84.20	0.251	0.864	2.78	9.57		1	WG2233234
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233234
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233234
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233234
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233234
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233234
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233234
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233234
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233234
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233234
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2233234
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233234
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233234
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233234
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233234
Ethanol	64-17-5	46.10	0.883	1.66	273	515	E	1	WG2233234
Ethylbenzene	100-41-4	106	0.278	1.21	3.75	16.3		1	WG2233234
4-Ethyltoluene	622-96-8	120	0.261	1.28	1.31	6.43		1	WG2233234
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233234
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	0.500	2.47		1	WG2233234
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233234
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233234
Heptane	142-82-5	100	0.347	1.42	3.75	15.3		1	WG2233234
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233234
n-Hexane	110-54-3	86.20	0.687	2.42	15.7	55.4		1	WG2233234
Isopropylbenzene	98-82-8	120.20	0.259	1.27	0.442	2.17		1	WG2233234
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2233234
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233234
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	3.83	11.3		1	WG2233234
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2233234
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233234
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233234
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233234
2-Propanol	67-63-0	60.10	0.880	2.16	2.59	6.37		1	WG2233234
Propene	115-07-1	42.10	0.311	0.536	22.1	38.1		1	WG2233234
Styrene	100-42-5	104	0.263	1.12	1.46	6.21		1	WG2233234
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233234
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233234
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	1.73	5.10		1	WG2233234
Toluene	108-88-3	92.10	0.290	1.09	28.9	109		1	WG2233234
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233234

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233234
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233234
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233234
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	4.06	19.9		1	WG2233234
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	1.16	5.69		1	WG2233234
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	9.27	43.3		1	WG2233234
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233234
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233234
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233234
Xylenes, Total	1330-20-7	106.16	0.450	1.95	14.7	63.8		1	WG2233234
m&p-Xylene	179601-23-1	106	0.450	1.95	10.3	44.7		1	WG2233234
o-Xylene	95-47-6	106	0.276	1.20	4.37	18.9		1	WG2233234
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.9				WG2233234

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

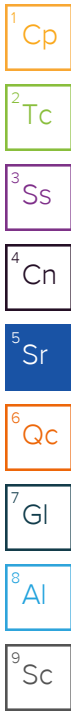
7
Gl

8
Al

9
Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	936	2220	E J3	1	WG2233243
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233243
Benzene	71-43-2	78.10	0.238	0.760	0.511	1.63		1	WG2233243
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233243
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233243
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233243
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233243
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233243
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233243
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233243
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233243
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233243
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233243
Chloromethane	74-87-3	50.50	0.343	0.708	0.706	1.46		1	WG2233243
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233243
Cyclohexane	110-82-7	84.20	0.251	0.864	1.61	5.54		1	WG2233243
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233243
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233243
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233243
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233243
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233243
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233243
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233243
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233243
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233243
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2233243
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233243
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233243
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233243
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233243
Ethanol	64-17-5	46.10	0.883	1.66	16.6	31.3		1	WG2233243
Ethylbenzene	100-41-4	106	0.278	1.21	1.40	6.07		1	WG2233243
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2233243
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233243
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233243
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233243
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233243
Heptane	142-82-5	100	0.347	1.42	0.580	2.37		1	WG2233243
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233243
n-Hexane	110-54-3	86.20	0.687	2.42	ND	ND		1	WG2233243
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233243
Methylene Chloride	75-09-2	84.90	0.326	1.13	0.427	1.48		1	WG2233243
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233243
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	11.1	32.7		1	WG2233243
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	1.13	4.63		1	WG2233243
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233243
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233243
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233243
2-Propanol	67-63-0	60.10	0.880	2.16	3.78	9.29		1	WG2233243
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233243
Styrene	100-42-5	104	0.263	1.12	0.704	2.99		1	WG2233243
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233243
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233243
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2233243
Toluene	108-88-3	92.10	0.290	1.09	2.29	8.63		1	WG2233243
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233243



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233243
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233243
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233243
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.696	3.42		1	WG2233243
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2233243
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233243
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233243
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233243
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233243
Xylenes, Total	1330-20-7	106.16	0.450	1.95	7.73	33.6		1	WG2233243
m&p-Xylene	179601-23-1	106	0.450	1.95	5.96	25.8		1	WG2233243
o-Xylene	95-47-6	106	0.276	1.20	1.77	7.67		1	WG2233243
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2233243

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	391	929	E J3	1	WG2233243
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233243
Benzene	71-43-2	78.10	0.238	0.760	0.475	1.52		1	WG2233243
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233243
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233243
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233243
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233243
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233243
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233243
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233243
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233243
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233243
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233243
Chloromethane	74-87-3	50.50	0.343	0.708	0.571	1.18		1	WG2233243
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233243
Cyclohexane	110-82-7	84.20	0.251	0.864	10.5	36.2		1	WG2233243
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233243
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233243
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233243
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233243
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233243
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233243
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233243
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233243
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233243
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2233243
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233243
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233243
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233243
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233243
Ethanol	64-17-5	46.10	0.883	1.66	75.4	142		1	WG2233243
Ethylbenzene	100-41-4	106	0.278	1.21	1.31	5.68		1	WG2233243
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2233243
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233243
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233243
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233243
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233243
Heptane	142-82-5	100	0.347	1.42	2.13	8.71		1	WG2233243
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233243
n-Hexane	110-54-3	86.20	0.687	2.42	0.804	2.83		1	WG2233243
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233243
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2233243
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233243
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	14.8	43.6		1	WG2233243
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	1.06	4.34		1	WG2233243
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233243
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233243
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233243
2-Propanol	67-63-0	60.10	0.880	2.16	4.12	10.1		1	WG2233243
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233243
Styrene	100-42-5	104	0.263	1.12	0.866	3.68		1	WG2233243
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233243
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233243
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2233243
Toluene	108-88-3	92.10	0.290	1.09	2.37	8.93		1	WG2233243
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233243
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233243
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233243
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.997	4.89		1	WG2233243
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2233243
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233243
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233243
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233243
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233243
Xylenes, Total	1330-20-7	106.16	0.450	1.95	7.55	32.8		1	WG2233243
m&p-Xylene	179601-23-1	106	0.450	1.95	5.86	25.4		1	WG2233243
o-Xylene	95-47-6	106	0.276	1.20	1.69	7.33		1	WG2233243
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.8				WG2233243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	617	1470	E J3	1	WG2233243
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233243
Benzene	71-43-2	78.10	0.238	0.760	0.461	1.47		1	WG2233243
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233243
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233243
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233243
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233243
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233243
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233243
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233243
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233243
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233243
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233243
Chloromethane	74-87-3	50.50	0.343	0.708	0.566	1.17		1	WG2233243
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233243
Cyclohexane	110-82-7	84.20	0.251	0.864	11.0	37.9		1	WG2233243
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233243
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233243
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233243
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233243
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233243
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233243
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233243
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233243
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233243
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2233243
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233243
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233243
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233243
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233243
Ethanol	64-17-5	46.10	0.883	1.66	70.8	133		1	WG2233243
Ethylbenzene	100-41-4	106	0.278	1.21	1.81	7.85		1	WG2233243
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.284	1.39		1	WG2233243
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233243
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233243
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233243
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233243
Heptane	142-82-5	100	0.347	1.42	2.17	8.88		1	WG2233243
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233243
n-Hexane	110-54-3	86.20	0.687	2.42	0.781	2.75		1	WG2233243
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233243
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2233243
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233243
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	13.3	39.2		1	WG2233243
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	1.32	5.40		1	WG2233243
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233243
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233243
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233243
2-Propanol	67-63-0	60.10	0.880	2.16	7.30	17.9		1	WG2233243
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233243
Styrene	100-42-5	104	0.263	1.12	0.673	2.86		1	WG2233243
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233243
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233243
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2233243
Toluene	108-88-3	92.10	0.290	1.09	2.15	8.10		1	WG2233243
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233243
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233243
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233243
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.54	7.56		1	WG2233243
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.412	2.02		1	WG2233243
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233243
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233243
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233243
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233243
Xylenes, Total	1330-20-7	106.16	0.450	1.95	10.4	45.2		1	WG2233243
m&p-Xylene	179601-23-1	106	0.450	1.95	8.13	35.2		1	WG2233243
o-Xylene	95-47-6	106	0.276	1.20	2.24	9.71		1	WG2233243
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2233243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.95	4.63	112	266	E J3	1	WG2233243
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2233243
Benzene	71-43-2	78.10	0.238	0.760	1.01	3.23		1	WG2233243
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2233243
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2233243
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2233243
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2233243
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2233243
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2233243
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2233243
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2233243
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2233243
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2233243
Chloromethane	74-87-3	50.50	0.343	0.708	0.658	1.36		1	WG2233243
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2233243
Cyclohexane	110-82-7	84.20	0.251	0.864	1.82	6.27		1	WG2233243
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2233243
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2233243
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2233243
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2233243
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2233243
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2233243
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2233243
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2233243
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2233243
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	3.20	12.7		1	WG2233243
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2233243
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2233243
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2233243
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2233243
Ethanol	64-17-5	46.10	0.883	1.66	30.4	57.3		1	WG2233243
Ethylbenzene	100-41-4	106	0.278	1.21	0.537	2.33		1	WG2233243
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2233243
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2233243
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2233243
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2233243
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2233243
Heptane	142-82-5	100	0.347	1.42	0.736	3.01		1	WG2233243
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2233243
n-Hexane	110-54-3	86.20	0.687	2.42	1.56	5.50		1	WG2233243
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2233243
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2233243
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2233243
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	41.8	123		1	WG2233243
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	0.342	1.40		1	WG2233243
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2233243
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2233243
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2233243
2-Propanol	67-63-0	60.10	0.880	2.16	2.67	6.56		1	WG2233243
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2233243
Styrene	100-42-5	104	0.263	1.12	1.36	5.78		1	WG2233243
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2233243
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2233243
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	49.5	146		1	WG2233243
Toluene	108-88-3	92.10	0.290	1.09	4.37	16.5		1	WG2233243
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2233243

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.245	1.33	ND	ND		1	WG2233243
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2233243
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2233243
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.576	2.83		1	WG2233243
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2233243
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2233243
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2233243
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2233243
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2233243
Xylenes, Total	1330-20-7	106.16	0.450	1.95	2.57	11.2		1	WG2233243
m&p-Xylene	179601-23-1	106	0.450	1.95	1.90	8.24		1	WG2233243
o-Xylene	95-47-6	106	0.276	1.20	0.669	2.90		1	WG2233243
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2233243

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4037847-2 02/24/24 07:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	U		0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4037847-2 02/24/24 07:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	101			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4037847-1 02/24/24 07:25 • (LCSD) R4037847-3 02/24/24 08:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.04	3.92	108	105	70.0-130			3.02	25
Allyl chloride	3.75	4.10	4.05	109	108	70.0-130			1.23	25
Benzene	3.75	3.85	3.83	103	102	70.0-130			0.521	25
Benzyl Chloride	3.75	3.80	3.79	101	101	70.0-152			0.264	25

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

(LCS) R4037847-1 02/24/24 07:25 • (LCSD) R4037847-3 02/24/24 08:20

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.82	3.78	102	101	70.0-130			1.05	25
Bromoform	3.75	3.54	3.40	94.4	90.7	70.0-130			4.03	25
Bromomethane	3.75	3.82	3.76	102	100	70.0-130			1.58	25
1,3-Butadiene	3.75	4.03	4.03	107	107	70.0-130			0.000	25
Carbon disulfide	3.75	3.79	3.76	101	100	70.0-130			0.795	25
Carbon tetrachloride	3.75	3.98	3.93	106	105	70.0-130			1.26	25
Chlorobenzene	3.75	3.78	3.71	101	98.9	70.0-130			1.87	25
Chloroethane	3.75	3.85	3.72	103	99.2	70.0-130			3.43	25
Chloroform	3.75	4.00	3.97	107	106	70.0-130			0.753	25
Chloromethane	3.75	3.95	3.87	105	103	70.0-130			2.05	25
2-Chlorotoluene	3.75	3.97	3.88	106	103	70.0-130			2.29	25
Cyclohexane	3.75	3.95	3.87	105	103	70.0-130			2.05	25
Dibromochloromethane	3.75	3.76	3.69	100	98.4	70.0-130			1.88	25
1,2-Dibromoethane	3.75	3.90	3.90	104	104	70.0-130			0.000	25
1,2-Dichlorobenzene	3.75	3.83	3.78	102	101	70.0-130			1.31	25
1,3-Dichlorobenzene	3.75	3.87	3.92	103	105	70.0-130			1.28	25
1,4-Dichlorobenzene	3.75	3.85	3.88	103	103	70.0-130			0.776	25
1,2-Dichloroethane	3.75	3.96	4.03	106	107	70.0-130			1.75	25
1,1-Dichloroethane	3.75	4.01	3.98	107	106	70.0-130			0.751	25
1,1-Dichloroethene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
cis-1,2-Dichloroethene	3.75	3.97	3.93	106	105	70.0-130			1.01	25
trans-1,2-Dichloroethene	3.75	3.98	4.00	106	107	70.0-130			0.501	25
1,2-Dichloropropane	3.75	3.89	3.84	104	102	70.0-130			1.29	25
cis-1,3-Dichloropropene	3.75	3.79	3.70	101	98.7	70.0-130			2.40	25
trans-1,3-Dichloropropene	3.75	3.77	3.65	101	97.3	70.0-130			3.23	25
1,4-Dioxane	3.75	4.03	3.91	107	104	70.0-140			3.02	25
Ethanol	3.75	3.73	3.73	99.5	99.5	55.0-148			0.000	25
Ethylbenzene	3.75	3.88	3.86	103	103	70.0-130			0.517	25
4-Ethyltoluene	3.75	4.03	4.05	107	108	70.0-130			0.495	25
Trichlorofluoromethane	3.75	3.98	3.99	106	106	70.0-130			0.251	25
Dichlorodifluoromethane	3.75	3.90	3.93	104	105	64.0-139			0.766	25
1,1,2-Trichlorotrifluoroethane	3.75	3.90	3.90	104	104	70.0-130			0.000	25
1,2-Dichlorotetrafluoroethane	3.75	3.93	3.87	105	103	70.0-130			1.54	25
Heptane	3.75	4.01	3.97	107	106	70.0-130			1.00	25
Hexachloro-1,3-butadiene	3.75	3.32	3.49	88.5	93.1	70.0-151			4.99	25
n-Hexane	3.75	3.95	3.93	105	105	70.0-130			0.508	25
Isopropylbenzene	3.75	3.88	3.88	103	103	70.0-130			0.000	25
Methylene Chloride	3.75	3.99	4.00	106	107	70.0-130			0.250	25
Methyl Butyl Ketone	3.75	4.22	4.10	113	109	70.0-149			2.88	25
2-Butanone (MEK)	3.75	3.89	3.87	104	103	70.0-130			0.515	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R4037847-1 02/24/24 07:25 • (LCSD) R4037847-3 02/24/24 08:20

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.05	4.19	108	112	70.0-139			3.40	25
Methyl methacrylate	3.75	3.87	3.84	103	102	70.0-130			0.778	25
MTBE	3.75	4.05	3.99	108	106	70.0-130			1.49	25
Naphthalene	3.75	3.78	3.69	101	98.4	70.0-159			2.41	25
2-Propanol	3.75	4.06	4.05	108	108	70.0-139			0.247	25
Propene	3.75	3.79	3.83	101	102	64.0-144			1.05	25
Styrene	3.75	4.01	3.93	107	105	70.0-130			2.02	25
1,1,2,2-Tetrachloroethane	3.75	3.93	3.94	105	105	70.0-130			0.254	25
Tetrachloroethylene	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
Tetrahydrofuran	3.75	4.06	3.99	108	106	70.0-137			1.74	25
Toluene	3.75	3.88	3.81	103	102	70.0-130			1.82	25
1,2,4-Trichlorobenzene	3.75	3.44	3.38	91.7	90.1	70.0-160			1.76	25
1,1,1-Trichloroethane	3.75	3.92	3.93	105	105	70.0-130			0.255	25
1,1,2-Trichloroethane	3.75	3.80	3.84	101	102	70.0-130			1.05	25
Trichloroethylene	3.75	3.88	3.82	103	102	70.0-130			1.56	25
1,2,4-Trimethylbenzene	3.75	3.99	4.01	106	107	70.0-130			0.500	25
1,3,5-Trimethylbenzene	3.75	4.05	4.05	108	108	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.06	4.02	108	107	70.0-130			0.990	25
Vinyl chloride	3.75	3.87	3.93	103	105	70.0-130			1.54	25
Vinyl Bromide	3.75	3.79	3.80	101	101	70.0-130			0.264	25
Vinyl acetate	3.75	3.16	2.88	84.3	76.8	70.0-130			9.27	25
Xylenes, Total	11.3	12.1	11.9	107	105	70.0-130			1.67	25
m&p-Xylene	7.50	8.03	7.84	107	105	70.0-130			2.39	25
o-Xylene	3.75	4.06	4.02	108	107	70.0-130			0.990	25
(S) 1,4-Bromofluorobenzene				104	101	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4037852-3 02/24/24 09:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.584	1.95
Allyl chloride	U		0.114	0.380
Benzene	U		0.0715	0.238
Benzyl Chloride	U		0.0598	0.199
Bromodichloromethane	U		0.0702	0.234
Bromoform	U		0.0732	0.244
Bromomethane	U		0.0982	0.327
1,3-Butadiene	U		0.104	0.347
Carbon disulfide	U		0.102	0.340
Carbon tetrachloride	U		0.0732	0.244
Chlorobenzene	U		0.0832	0.277
Chloroethane	U		0.0996	0.332
Chloroform	U		0.0717	0.239
Chloromethane	U		0.103	0.343
2-Chlorotoluene	U		0.0828	0.276
Cyclohexane	U		0.0753	0.251
Dibromochloromethane	U		0.0727	0.242
1,2-Dibromoethane	U		0.0721	0.240
1,2-Dichlorobenzene	U		0.128	0.427
1,3-Dichlorobenzene	U		0.182	0.607
1,4-Dichlorobenzene	U		0.0557	0.186
1,2-Dichloroethane	U		0.0700	0.233
1,1-Dichloroethane	U		0.0723	0.241
1,1-Dichloroethene	U		0.0762	0.254
cis-1,2-Dichloroethene	U		0.0784	0.261
trans-1,2-Dichloroethene	U		0.0673	0.224
1,2-Dichloropropane	U		0.0760	0.253
cis-1,3-Dichloropropene	U		0.0689	0.230
trans-1,3-Dichloropropene	U		0.0728	0.243
1,4-Dioxane	U		0.0833	0.278
Ethanol	0.333	U	0.265	0.883
Ethylbenzene	U		0.0835	0.278
4-Ethyltoluene	U		0.0783	0.261
Trichlorofluoromethane	U		0.0819	0.273
Dichlorodifluoromethane	U		0.137	0.457
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.264
1,2-Dichlorotetrafluoroethane	U		0.0890	0.297
Heptane	U		0.104	0.347
Hexachloro-1,3-butadiene	U		0.105	0.350
n-Hexane	U		0.206	0.687

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4037852-3 02/24/24 09:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0777	0.259
Methylene Chloride	U		0.0979	0.326
Methyl Butyl Ketone	U		0.133	0.443
2-Butanone (MEK)	U		0.0814	0.271
4-Methyl-2-pentanone (MIBK)	U		0.0765	0.255
Methyl methacrylate	U		0.0876	0.292
MTBE	U		0.0647	0.216
Naphthalene	U		0.350	1.17
2-Propanol	U		0.264	0.880
Propene	U		0.0932	0.311
Styrene	U		0.0788	0.263
1,1,2,2-Tetrachloroethane	U		0.0743	0.248
Tetrachloroethylene	U		0.0814	0.271
Tetrahydrofuran	U		0.0734	0.245
Toluene	U		0.0870	0.290
1,2,4-Trichlorobenzene	U		0.148	0.493
1,1,1-Trichloroethane	U		0.0736	0.245
1,1,2-Trichloroethane	U		0.0775	0.258
Trichloroethylene	U		0.0680	0.227
1,2,4-Trimethylbenzene	U		0.0764	0.255
1,3,5-Trimethylbenzene	U		0.0779	0.260
2,2,4-Trimethylpentane	U		0.133	0.443
Vinyl chloride	U		0.0949	0.316
Vinyl Bromide	U		0.0852	0.284
Vinyl acetate	U		0.116	0.387
Xylenes, Total	U		0.135	0.450
m&p-Xylene	U		0.135	0.450
o-Xylene	U		0.0828	0.276
(S) 1,4-Bromofluorobenzene	101			60.0-140

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

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Gl

8
Al

9
Sc

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

(LCS) R4037852-1 02/24/24 07:51 • (LCSD) R4037852-2 02/24/24 08:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	2.71	3.91	72.3	104	70.0-130		J3	36.3	25
Allyl chloride	3.75	4.27	4.12	114	110	70.0-130			3.58	25
Benzene	3.75	3.83	3.90	102	104	70.0-130			1.81	25
Benzyl Chloride	3.75	3.86	3.88	103	103	70.0-152			0.517	25

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

(LCS) R4037852-1 02/24/24 07:51 • (LCSD) R4037852-2 02/24/24 08:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.74	3.75	99.7	100	70.0-130			0.267	25
Bromoform	3.75	3.52	3.66	93.9	97.6	70.0-130			3.90	25
Bromomethane	3.75	3.65	3.61	97.3	96.3	70.0-130			1.10	25
1,3-Butadiene	3.75	3.78	3.72	101	99.2	70.0-130			1.60	25
Carbon disulfide	3.75	3.77	3.69	101	98.4	70.0-130			2.14	25
Carbon tetrachloride	3.75	3.82	3.83	102	102	70.0-130			0.261	25
Chlorobenzene	3.75	3.71	3.74	98.9	99.7	70.0-130			0.805	25
Chloroethane	3.75	4.04	3.67	108	97.9	70.0-130			9.60	25
Chloroform	3.75	3.81	3.85	102	103	70.0-130			1.04	25
Chloromethane	3.75	3.55	3.50	94.7	93.3	70.0-130			1.42	25
2-Chlorotoluene	3.75	3.96	3.94	106	105	70.0-130			0.506	25
Cyclohexane	3.75	4.03	4.01	107	107	70.0-130			0.498	25
Dibromochloromethane	3.75	3.74	3.85	99.7	103	70.0-130			2.90	25
1,2-Dibromoethane	3.75	3.78	4.00	101	107	70.0-130			5.66	25
1,2-Dichlorobenzene	3.75	3.80	3.83	101	102	70.0-130			0.786	25
1,3-Dichlorobenzene	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
1,4-Dichlorobenzene	3.75	3.75	3.93	100	105	70.0-130			4.69	25
1,2-Dichloroethane	3.75	3.74	3.96	99.7	106	70.0-130			5.71	25
1,1-Dichloroethane	3.75	3.83	3.73	102	99.5	70.0-130			2.65	25
1,1-Dichloroethene	3.75	3.41	4.38	90.9	117	70.0-130			24.9	25
cis-1,2-Dichloroethene	3.75	3.92	3.88	105	103	70.0-130			1.03	25
trans-1,2-Dichloroethene	3.75	3.87	3.86	103	103	70.0-130			0.259	25
1,2-Dichloropropane	3.75	3.71	3.86	98.9	103	70.0-130			3.96	25
cis-1,3-Dichloropropene	3.75	3.84	3.89	102	104	70.0-130			1.29	25
trans-1,3-Dichloropropene	3.75	3.90	3.98	104	106	70.0-130			2.03	25
1,4-Dioxane	3.75	3.75	3.78	100	101	70.0-140			0.797	25
Ethanol	3.75	3.68	3.52	98.1	93.9	55.0-148			4.44	25
Ethylbenzene	3.75	3.89	3.88	104	103	70.0-130			0.257	25
4-Ethyltoluene	3.75	4.04	4.16	108	111	70.0-130			2.93	25
Trichlorofluoromethane	3.75	3.98	4.02	106	107	70.0-130			1.00	25
Dichlorodifluoromethane	3.75	3.42	3.56	91.2	94.9	64.0-139			4.01	25
1,1,2-Trichlorotrifluoroethane	3.75	3.29	3.66	87.7	97.6	70.0-130			10.6	25
1,2-Dichlorotetrafluoroethane	3.75	3.71	3.67	98.9	97.9	70.0-130			1.08	25
Heptane	3.75	4.05	4.05	108	108	70.0-130			0.000	25
Hexachloro-1,3-butadiene	3.75	3.71	3.75	98.9	100	70.0-151			1.07	25
n-Hexane	3.75	3.95	3.94	105	105	70.0-130			0.253	25
Isopropylbenzene	3.75	4.09	4.17	109	111	70.0-130			1.94	25
Methylene Chloride	3.75	3.75	3.64	100	97.1	70.0-130			2.98	25
Methyl Butyl Ketone	3.75	3.96	4.11	106	110	70.0-149			3.72	25
2-Butanone (MEK)	3.75	3.84	4.01	102	107	70.0-130			4.33	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R4037852-1 02/24/24 07:51 • (LCSD) R4037852-2 02/24/24 08:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	3.83	3.94	102	105	70.0-139			2.83	25
Methyl methacrylate	3.75	3.93	4.01	105	107	70.0-130			2.02	25
MTBE	3.75	4.10	4.19	109	112	70.0-130			2.17	25
Naphthalene	3.75	3.78	3.94	101	105	70.0-159			4.15	25
2-Propanol	3.75	3.82	3.70	102	98.7	70.0-139			3.19	25
Propene	3.75	3.82	3.71	102	98.9	64.0-144			2.92	25
Styrene	3.75	4.09	4.11	109	110	70.0-130			0.488	25
1,1,2,2-Tetrachloroethane	3.75	3.58	3.61	95.5	96.3	70.0-130			0.834	25
Tetrachloroethylene	3.75	3.80	3.95	101	105	70.0-130			3.87	25
Tetrahydrofuran	3.75	3.89	4.02	104	107	70.0-137			3.29	25
Toluene	3.75	3.97	4.05	106	108	70.0-130			2.00	25
1,2,4-Trichlorobenzene	3.75	3.66	3.74	97.6	99.7	70.0-160			2.16	25
1,1,1-Trichloroethane	3.75	3.80	3.76	101	100	70.0-130			1.06	25
1,1,2-Trichloroethane	3.75	3.82	3.73	102	99.5	70.0-130			2.38	25
Trichloroethylene	3.75	3.86	3.88	103	103	70.0-130			0.517	25
1,2,4-Trimethylbenzene	3.75	4.15	4.13	111	110	70.0-130			0.483	25
1,3,5-Trimethylbenzene	3.75	4.01	3.87	107	103	70.0-130			3.55	25
2,2,4-Trimethylpentane	3.75	3.89	3.92	104	105	70.0-130			0.768	25
Vinyl chloride	3.75	3.75	3.73	100	99.5	70.0-130			0.535	25
Vinyl Bromide	3.75	3.94	4.04	105	108	70.0-130			2.51	25
Vinyl acetate	3.75	3.98	4.01	106	107	70.0-130			0.751	25
Xylenes, Total	11.3	11.9	11.9	105	105	70.0-130			0.000	25
m&p-Xylene	7.50	7.95	7.95	106	106	70.0-130			0.000	25
o-Xylene	3.75	3.99	3.91	106	104	70.0-130			2.03	25
(S) 1,4-Bromofluorobenzene				99.3	99.8	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

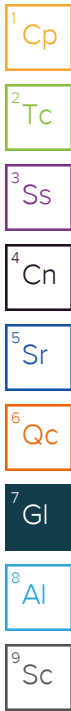
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



ACCREDITATIONS & LOCATIONS

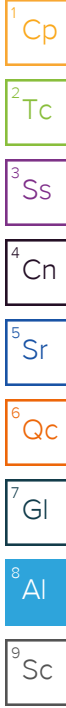
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Pace Pace* Location Requested (City/State): **WI** **Air CHAIN-OF-CUSTODY Analytical Request Document**
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **Kapur Inc - Milwaukee, WI** Contact/Report To: **Travis Peterson**
 Street Address: **7711 N. Port Washington Road Milwaukee, WI 53217** Phone #: **414-254-6358**
 City, State Zip: **WI** E-Mail: **tpeterson@kapurinc.com; robert3bach@gmail.com**
 Customer Project #: **Fox Run** Invoice to: **Fox Run**
 Project Name: **Fox Run** Invoice E-Mail: **Fox Run**
 Site Collection Info/Facility ID (as applicable): **KAPURMWI-FOX RUN** Purchase Order # (if applicable): **WI** Quote #: **WI**
 Time Zone Collected: [] AK [] PT [] MT [] **CT** [] ET State origin of sample(s): **WI**

Data Deliverables: Regulatory Program (CAA, RCRA, etc.) as applicable: **2 Day** 3 day 5 day Other **Free 2/23/24**
 [] Level II [] Level III [] Level IV Permit # as applicable: **2/19/24 - 2/20/24**
 [] EQUIS Date Results Requested: **Free 2/23/24** Units for Reporting: ug/m³ PPBV mg/m³ PPMV
 [] Other * Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Sample Receipt Checklist
 COC Seal Present/Intact: Y N Size: **8** L 1.4L
 COC Signed/Accurate: Y N Taps Color: G W P B
 Bottles arrive intact: Y N Tubing Shunt
 Correct bottles used: Y N

T/P#: _____
 Scan QR code for instructions

J054

Field Information

Analyses Requested

Canister Pressure / Vacuum

PUF / FILTER

Start Pressure / Vacuum (in Hg) End Pressure / Vacuum (in Hg) Duration (minutes) Flow Rate (m³/min or L/min) Total Volume Sampled (m³ or L)

TO-15 Summa

Lab Use Only

Proj. Manager: **4089 - Andi R Jones**
 AcctNum / Client ID: **KAPURMWI**
 Table #: **Profile / Template: T247227**
 Prelog / Bottle Ord. ID: **P1055917**

DI 2/16/24
L7086052
 Sample Comment

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)	TO-15 Summa	Lab Use Only
				Date	Time	Date	Time							
Bldg 1	I	291627	21253	2/19	12:10	2/20	11:08	-30	-4	24hr				
Bldg 2	I	107822	21257		12:12		11:02	-30	-7					
Bldg 3	I	08854	29201		12:15		11:05	-26	0					
Bldg 4	I	29369	29208		12:18		11:06	-29	0					
Bldg E5	I	28031	29204		12:36		11:10	-30	-7					
Bldg E6	I	14284	23535		12:38		11:11	-30	-5					
Bldg E7	I	11012	09930		12:40		11:13	-30	-7					
Bldg D8	I	29406	23509		12:42		11:14	-29	-3					

Customer Remarks / Special Conditions / Possible Hazards: **2 DAY TURN**

Collected By: **SAVITORENBERG** Additional Instructions from Pace*:
 Printed Name: **SAVITORENBERG**
 Signature: **[Signature]**

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

Relinquished by/Company: (Signature) **[Signature]** Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____ Tracking Number: _____

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____ Delivered by: In-Person Courier

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: **2-23-24** **0900** FedEX UPS Other

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____ Page: _____ of: _____