Mulcahy, Connor P - DNR

From: Travis W. Peterson <tpeterson@kapurinc.com>
Sent: Wednesday, March 6, 2024 2:38 PM
To: Mulcahy, Connor P - DNR
Cc: robert3bach@gmail.com
Subject: RE: Mercury Marine Plant No. 1
Attachments: Fox Run 24 HR Indoor Air TCE Vapor Data Table.pdf; L1709931.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Connor, good afternoon.

I have attached the latest round of 24 HR indoor air sampling lab analytical results and an updated TCE vapor data table.

We are continuing with the onsite vapor testing / system commissioning actions per our previous discussions and as more is completed, I will be sure to forward on to the department and your attention as the results become available.

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**
An Equal Opportunity / Affirmative Action Employer

From: Travis W. Peterson
Sent: Thursday, February 29, 2024 1:04 PM
To: 'Mulcahy, Connor P - DNR' <connor.mulcahy@wisconsin.gov>
Cc: robert3bach@gmail.com
Subject: RE: Mercury Marine Plant No. 1

Connor.

Please find attached an updated PFET data table that includes todays testing results and totaling three (3) consecutive days of PFET.

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**
An Equal Opportunity / Affirmative Action Employer

From: Travis W. Peterson
Sent: Wednesday, February 28, 2024 3:37 PM
To: 'Mulcahy, Connor P - DNR' <connor.mulcahy@wisconsin.gov>
Cc: robert3bach@gmail.com
Subject: RE: Mercury Marine Plant No. 1

Good afternoon Connor.

I wanted to forward you the attached updated site plan showing the vapor probe/PFET locations along with a data table that summarizes two consecutive days of PFET at the designated test ports within the associated buildings. Again, the sub-slab mitigation system has been activated in Building E (the northern 61 apartment unit complex).

Travis W. Peterson
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From: Mulcahy, Connor P - DNR <connor.mulcahy@wisconsin.gov>
Sent: Tuesday, February 27, 2024 3:11 PM
To: Travis W. Peterson <tpeterson@kapurinc.com>
Subject: Mercury Marine Plant No. 1

Travis,

What day do you expect you'll be able to submit the PFE results from activating the vapor mitigation system at Building E?

Thanks,
Connor

We are committed to service excellence.
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


dnr.wi.gov


Table A.4.a: TCE Vapor Analytical Results
Former Mercury Marine Plant No. 1
N49 W6337 Western Road, Cedarburg, Wisconsin

Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	BLDG 1	BLDG 2	BLDG 3	BLDG 4	BLDG E_5	BLDG E_6	BLDG E_7	BLDG D_8
Attenuation Factor	0.03	0.03								
Date Sampled			2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024
Regulated Fill Time			24 hr	24 hr	24 hr	24 hr	24 hr	24 hr	24 hr	24 hr
Structure/Location Sampled			**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Trichloroethene	**2.1**	**70**	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22

Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	BLDG 3	BLDG 4	BLDG E5 (111)	BLDG E10 (104)	BLDG E6 (118)	BLDG E7 (170)	BLDG E9 (163)	BLDG D8 (181)
Attenuation Factor	0.03	0.03								
Date Sampled			2/27/2024	2/27/2024	2/27/2024	2/27/2024	2/27/2024	2/27/2024	2/27/2024	2/27/2024
Regulated Fill Time			24 hr	24 hr	24 hr	24 hr	24 hr	24 hr	24 hr	24 hr
Structure/Location Sampled			**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**	**Indoor Air**
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Trichloroethene	**2.1**	**70**	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22	<1.22

NOTES:
Analysis run via EPA TO-15 methodology
All results are in micrograms per cubic meter ($\mu g/m^3$) unless noted otherwise
Concentrations exceeding the ResidentialIndoor Air Vapor Risk Screening Levels are in **BOLD**
Concentrations exceeding the Residential Sub-Slab Vapor Risk Screening Levels are *italicized*
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
N/A

ANALYTICAL REPORT

March 06, 2024

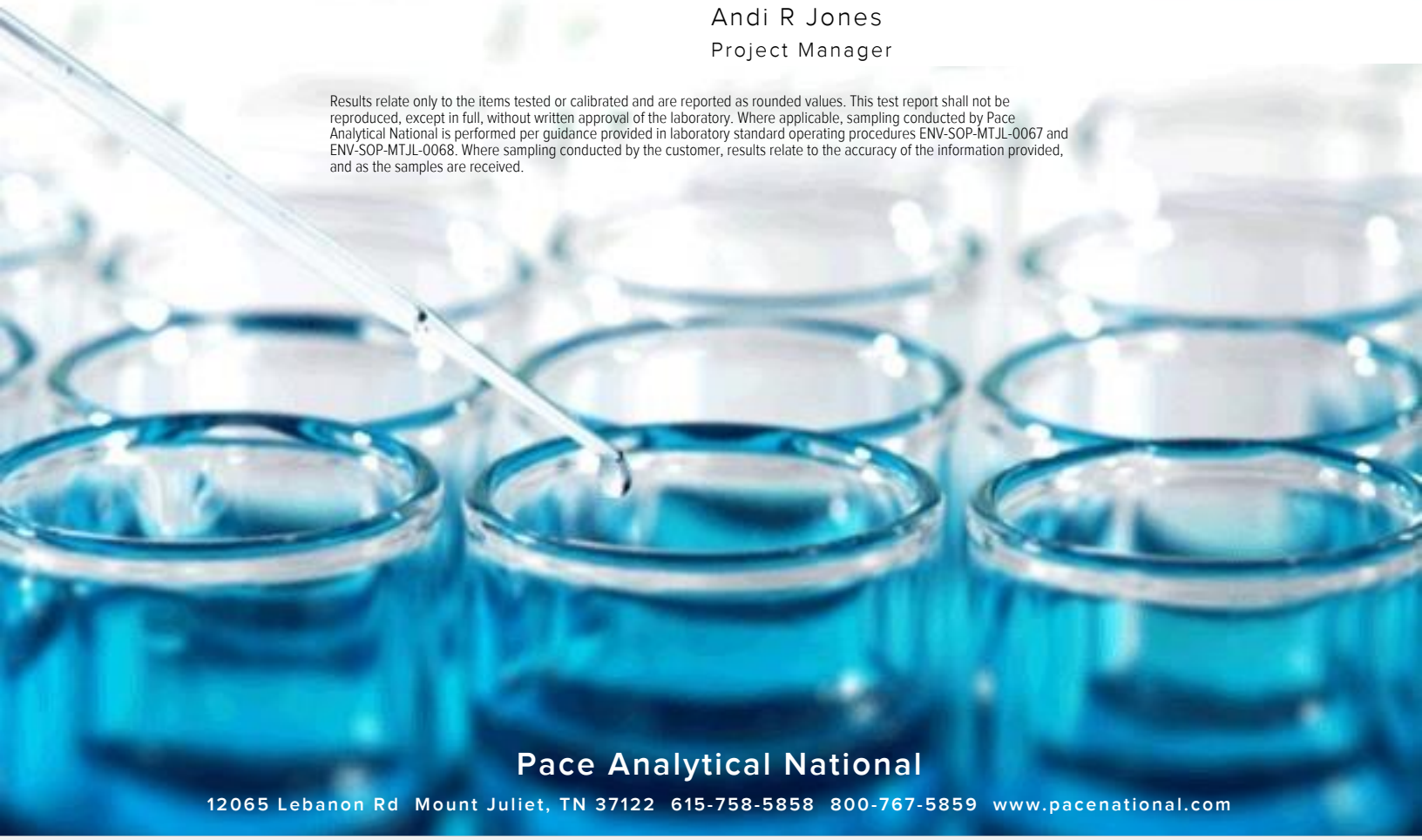
Kapur Inc - Milwaukee, WI

Sample Delivery Group:	L1709931
Samples Received:	02/28/2024
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



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

TABLE OF CONTENTS

BLDG 3 L1709931-01 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:36 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2238613	1	03/03/24 12:40	03/03/24 12:40	GH	Mt. Juliet, TN

BLDG 4 L1709931-02 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:38 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 19:29	03/01/24 19:29	MNP	Mt. Juliet, TN

BLDG E5 (111) L1709931-03 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:42 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 20:15	03/01/24 20:15	MNP	Mt. Juliet, TN

BLDG E10 (104) L1709931-04 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:43 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 21:01	03/01/24 21:01	MNP	Mt. Juliet, TN

BLDG E6 (118) L1709931-05 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:44 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 21:48	03/01/24 21:48	MNP	Mt. Juliet, TN

BLDG E7 (170) L1709931-06 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:48 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 22:34	03/01/24 22:34	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2239742	10	03/05/24 15:54	03/05/24 15:54	GH	Mt. Juliet, TN

BLDG E9 (163) L1709931-07 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:49 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/01/24 23:21	03/01/24 23:21	GH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2239742	10	03/05/24 16:40	03/05/24 16:40	GH	Mt. Juliet, TN

BLDG D8 (181) L1709931-08 Air

Collected by: Chad L. | Collected date/time: 02/27/24 08:52 | Received date/time: 02/28/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2237738	1	03/02/24 00:07	03/02/24 00:07	GH	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

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	21.7	51.6		1	WG2238613
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2238613
Benzene	71-43-2	78.10	0.238	0.760	0.304	0.971		1	WG2238613
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2238613
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2238613
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2238613
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2238613
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2238613
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2238613
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2238613
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2238613
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2238613
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2238613
Chloromethane	74-87-3	50.50	0.343	0.708	0.570	1.18		1	WG2238613
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2238613
Cyclohexane	110-82-7	84.20	0.251	0.864	ND	ND		1	WG2238613
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2238613
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2238613
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2238613
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2238613
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2238613
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2238613
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2238613
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2238613
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2238613
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2238613
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2238613
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2238613
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2238613
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2238613
Ethanol	64-17-5	46.10	0.883	1.66	40.0	75.4		1	WG2238613
Ethylbenzene	100-41-4	106	0.278	1.21	0.880	3.82		1	WG2238613
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.450	2.21		1	WG2238613
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2238613
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2238613
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2238613
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2238613
Heptane	142-82-5	100	0.347	1.42	0.372	1.52		1	WG2238613
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2238613
n-Hexane	110-54-3	86.20	0.687	2.42	2.76	9.73		1	WG2238613
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2238613
Methylene Chloride	75-09-2	84.90	0.326	1.13	0.979	3.40		1	WG2238613
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2238613
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	1.99	5.87		1	WG2238613
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2238613
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2238613
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2238613
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2238613
2-Propanol	67-63-0	60.10	0.880	2.16	3.13	7.69		1	WG2238613
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2238613
Styrene	100-42-5	104	0.263	1.12	0.649	2.76		1	WG2238613
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2238613
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2238613
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2238613
Toluene	108-88-3	92.10	0.290	1.09	45.2	170		1	WG2238613
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2238613

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	WG2238613
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2238613
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2238613
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.552	2.71		1	WG2238613
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2238613
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2238613
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2238613
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2238613
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2238613
Xylenes, Total	1330-20-7	106.16	0.450	1.95	4.85	21.1		1	WG2238613
m&p-Xylene	179601-23-1	106	0.450	1.95	3.70	16.0		1	WG2238613
o-Xylene	95-47-6	106	0.276	1.20	1.15	4.99		1	WG2238613
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.3*				WG2238613

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	30.3	72.0		1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	0.640	2.04		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.603	1.25		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	0.343	1.18		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	31.4	59.2		1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	1.00	4.34		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	0.404	1.65		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	7.23	25.5		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	6.62	19.5		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	3.04	7.47		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	0.693	2.95		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	62.7	236		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.971	4.77		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.466	2.29		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	5.43	23.6		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	4.15	18.0		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	1.28	5.55		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG2237738

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	134	318	E	1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	0.594	1.90		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.641	1.32		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	9.26	31.9		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	37.9	71.5		1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	3.23	14.0		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.281	1.38		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	2.34	9.57		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	2.16	7.62		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	26.3	77.6		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	1.36	5.57		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	8.35	20.5		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	2.10	8.93		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	3.81	14.4		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.89	9.28		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.507	2.49		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	18.5	80.3		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	14.0	60.7		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	4.52	19.6		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG2237738

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	34.6	82.2		1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	0.332	1.06		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.607	1.25		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	3.30	11.4		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	125	236	E	1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	0.502	2.18		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	0.786	3.21		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	1.03	3.63		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	2.93	10.2		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	6.50	19.2		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	0.513	2.10		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	12.4	30.5		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	0.410	1.74		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	2.08	7.84		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.454	2.23		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	2.81	12.2		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	2.12	9.19		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	0.693	3.00		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG2237738

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	192	456	E	1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	1.13	3.61		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.696	1.44		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	21.6	74.4		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	0.639	2.53		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	130	245	E	1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	2.36	10.2		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	ND	ND		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	4.95	20.2		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	4.41	15.5		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	36.3	107		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	2.36	9.66		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	35.7	87.8		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	1.57	6.68		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	5.19	19.6		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.71	8.39		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.485	2.38		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	0.500	2.34		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	13.3	57.7		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	10.1	43.8		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	3.16	13.7		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG2237738

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	861	2050	E	1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	0.686	2.19		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.751	1.55		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	7.44	25.6		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	ND	ND		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	72.0	136		1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	2.34	10.1		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.958	4.70		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	1.59	6.50		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	2.23	7.86		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	26.4	77.9		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	1.59	6.51		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	8.80	21.6	184	452		10	WG2239742
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	0.951	4.05		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	ND	ND		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	6.86	25.8		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	1.37	6.72		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	0.383	1.88		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	13.5	58.6		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	10.4	45.1		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	3.12	13.5		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.8*				WG2239742

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	276	656	E	1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	1.04	3.32		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.574	1.19		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	26.3	90.6		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	0.949	3.76		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	36.1	68.1		1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	1.62	7.02		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.530	2.60		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	4.82	19.7		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	7.28	25.7		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	58.9	174		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	6.37	26.1		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	8.58	21.1		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	1.24	5.27		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	2.45	7.22	74.7	220		10	WG2239742
Toluene	108-88-3	92.10	0.290	1.09	5.49	20.7		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.626	3.07		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	0.763	3.56		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	8.10	35.2		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	6.14	26.6		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	1.96	8.50		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.7*				WG2239742

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	47.6	113		1	WG2237738
Allyl chloride	107-05-1	76.53	0.380	1.19	ND	ND		1	WG2237738
Benzene	71-43-2	78.10	0.238	0.760	0.504	1.61		1	WG2237738
Benzyl Chloride	100-44-7	127	0.199	1.03	ND	ND		1	WG2237738
Bromodichloromethane	75-27-4	164	0.234	1.57	ND	ND		1	WG2237738
Bromoform	75-25-2	253	0.244	2.52	ND	ND		1	WG2237738
Bromomethane	74-83-9	94.90	0.327	1.27	ND	ND		1	WG2237738
1,3-Butadiene	106-99-0	54.10	0.347	0.768	ND	ND		1	WG2237738
Carbon disulfide	75-15-0	76.10	0.340	1.06	ND	ND		1	WG2237738
Carbon tetrachloride	56-23-5	154	0.244	1.54	ND	ND		1	WG2237738
Chlorobenzene	108-90-7	113	0.277	1.28	ND	ND		1	WG2237738
Chloroethane	75-00-3	64.50	0.332	0.876	ND	ND		1	WG2237738
Chloroform	67-66-3	119	0.239	1.16	ND	ND		1	WG2237738
Chloromethane	74-87-3	50.50	0.343	0.708	0.592	1.22		1	WG2237738
2-Chlorotoluene	95-49-8	126	0.276	1.42	ND	ND		1	WG2237738
Cyclohexane	110-82-7	84.20	0.251	0.864	43.3	149		1	WG2237738
Dibromochloromethane	124-48-1	208	0.242	2.06	ND	ND		1	WG2237738
1,2-Dibromoethane	106-93-4	188	0.240	1.85	ND	ND		1	WG2237738
1,2-Dichlorobenzene	95-50-1	147	0.427	2.57	ND	ND		1	WG2237738
1,3-Dichlorobenzene	541-73-1	147	0.607	3.65	ND	ND		1	WG2237738
1,4-Dichlorobenzene	106-46-7	147	0.186	1.12	ND	ND		1	WG2237738
1,2-Dichloroethane	107-06-2	99	0.233	0.943	ND	ND		1	WG2237738
1,1-Dichloroethane	75-34-3	98	0.241	0.966	ND	ND		1	WG2237738
1,1-Dichloroethene	75-35-4	96.90	0.254	1.01	ND	ND		1	WG2237738
cis-1,2-Dichloroethene	156-59-2	96.90	0.261	1.03	ND	ND		1	WG2237738
trans-1,2-Dichloroethene	156-60-5	96.90	0.224	0.888	3.41	13.5		1	WG2237738
1,2-Dichloropropane	78-87-5	113	0.253	1.17	ND	ND		1	WG2237738
cis-1,3-Dichloropropene	10061-01-5	111	0.230	1.04	ND	ND		1	WG2237738
trans-1,3-Dichloropropene	10061-02-6	111	0.243	1.10	ND	ND		1	WG2237738
1,4-Dioxane	123-91-1	88.10	0.278	1.00	ND	ND		1	WG2237738
Ethanol	64-17-5	46.10	0.883	1.66	23.7	44.7		1	WG2237738
Ethylbenzene	100-41-4	106	0.278	1.21	0.596	2.58		1	WG2237738
4-Ethyltoluene	622-96-8	120	0.261	1.28	0.316	1.55		1	WG2237738
Trichlorofluoromethane	75-69-4	137.40	0.273	1.53	ND	ND		1	WG2237738
Dichlorodifluoromethane	75-71-8	120.92	0.457	2.26	ND	ND		1	WG2237738
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.264	2.02	ND	ND		1	WG2237738
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.297	2.08	ND	ND		1	WG2237738
Heptane	142-82-5	100	0.347	1.42	7.21	29.5		1	WG2237738
Hexachloro-1,3-butadiene	87-68-3	261	0.350	3.74	ND	ND		1	WG2237738
n-Hexane	110-54-3	86.20	0.687	2.42	9.86	34.8		1	WG2237738
Isopropylbenzene	98-82-8	120.20	0.259	1.27	ND	ND		1	WG2237738
Methylene Chloride	75-09-2	84.90	0.326	1.13	ND	ND		1	WG2237738
Methyl Butyl Ketone	591-78-6	100	0.443	1.81	ND	ND		1	WG2237738
2-Butanone (MEK)	78-93-3	72.10	0.271	0.799	12.1	35.7		1	WG2237738
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.255	1.04	ND	ND		1	WG2237738
Methyl methacrylate	80-62-6	100.12	0.292	1.20	ND	ND		1	WG2237738
MTBE	1634-04-4	88.10	0.216	0.778	ND	ND		1	WG2237738
Naphthalene	91-20-3	128	1.17	6.13	ND	ND		1	WG2237738
2-Propanol	67-63-0	60.10	0.880	2.16	3.20	7.87		1	WG2237738
Propene	115-07-1	42.10	0.311	0.536	ND	ND		1	WG2237738
Styrene	100-42-5	104	0.263	1.12	0.746	3.17		1	WG2237738
1,1,2,2-Tetrachloroethane	79-34-5	168	0.248	1.70	ND	ND		1	WG2237738
Tetrachloroethylene	127-18-4	166	0.271	1.84	ND	ND		1	WG2237738
Tetrahydrofuran	109-99-9	72.10	0.245	0.722	34.7	102		1	WG2237738
Toluene	108-88-3	92.10	0.290	1.09	7.92	29.8		1	WG2237738
1,2,4-Trichlorobenzene	120-82-1	181	0.493	3.65	ND	ND		1	WG2237738

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	WG2237738
1,1,2-Trichloroethane	79-00-5	133	0.258	1.40	ND	ND		1	WG2237738
Trichloroethylene	79-01-6	131	0.227	1.22	ND	ND		1	WG2237738
1,2,4-Trimethylbenzene	95-63-6	120	0.255	1.25	0.470	2.31		1	WG2237738
1,3,5-Trimethylbenzene	108-67-8	120	0.260	1.28	ND	ND		1	WG2237738
2,2,4-Trimethylpentane	540-84-1	114.22	0.443	2.07	ND	ND		1	WG2237738
Vinyl chloride	75-01-4	62.50	0.316	0.808	ND	ND		1	WG2237738
Vinyl Bromide	593-60-2	106.95	0.284	1.24	ND	ND		1	WG2237738
Vinyl acetate	108-05-4	86.10	0.387	1.36	ND	ND		1	WG2237738
Xylenes, Total	1330-20-7	106.16	0.450	1.95	2.90	12.6		1	WG2237738
m&p-Xylene	179601-23-1	106	0.450	1.95	2.18	9.45		1	WG2237738
o-Xylene	95-47-6	106	0.276	1.20	0.715	3.10		1	WG2237738
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG2237738

Method Blank (MB)

(MB) R4040742-3 03/01/24 10:53

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL 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	0.280	J	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

Method Blank (MB)

(MB) R4040742-3 03/01/24 10:53

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL 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	*98.9*			*60.0-140*

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

(LCS) R4040742-1 03/01/24 09:18 • (LCSD) R4040742-2 03/01/24 10:07

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.19	4.38	112	117	70.0-130			4.43	25
Allyl chloride	3.75	4.22	4.08	113	109	70.0-130			3.37	25
Benzene	3.75	4.23	4.30	113	115	70.0-130			1.64	25
Benzyl Chloride	3.75	4.07	4.13	109	110	70.0-152			1.46	25

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

(LCS) R4040742-1 03/01/24 09:18 • (LCSD) R4040742-2 03/01/24 10:07

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.26	4.18	114	111	70.0-130			1.90	25
Bromoform	3.75	4.05	4.05	108	108	70.0-130			0.000	25
Bromomethane	3.75	3.94	4.08	105	109	70.0-130			3.49	25
1,3-Butadiene	3.75	3.95	4.11	105	110	70.0-130			3.97	25
Carbon disulfide	3.75	4.08	4.07	109	109	70.0-130			0.245	25
Carbon tetrachloride	3.75	4.16	4.04	111	108	70.0-130			2.93	25
Chlorobenzene	3.75	4.24	4.25	113	113	70.0-130			0.236	25
Chloroethane	3.75	4.37	4.08	117	109	70.0-130			6.86	25
Chloroform	3.75	4.26	4.13	114	110	70.0-130			3.10	25
Chloromethane	3.75	4.17	4.12	111	110	70.0-130			1.21	25
2-Chlorotoluene	3.75	4.10	4.04	109	108	70.0-130			1.47	25
Cyclohexane	3.75	4.33	4.25	115	113	70.0-130			1.86	25
Dibromochloromethane	3.75	4.21	4.22	112	113	70.0-130			0.237	25
1,2-Dibromoethane	3.75	4.31	4.19	115	112	70.0-130			2.82	25
1,2-Dichlorobenzene	3.75	4.12	3.96	110	106	70.0-130			3.96	25
1,3-Dichlorobenzene	3.75	4.19	4.05	112	108	70.0-130			3.40	25
1,4-Dichlorobenzene	3.75	4.15	4.10	111	109	70.0-130			1.21	25
1,2-Dichloroethane	3.75	4.25	4.09	113	109	70.0-130			3.84	25
1,1-Dichloroethane	3.75	4.19	4.05	112	108	70.0-130			3.40	25
1,1-Dichloroethene	3.75	4.24	4.08	113	109	70.0-130			3.85	25
cis-1,2-Dichloroethene	3.75	4.23	4.17	113	111	70.0-130			1.43	25
trans-1,2-Dichloroethene	3.75	4.33	4.20	115	112	70.0-130			3.05	25
1,2-Dichloropropane	3.75	4.15	4.20	111	112	70.0-130			1.20	25
cis-1,3-Dichloropropene	3.75	4.26	4.27	114	114	70.0-130			0.234	25
trans-1,3-Dichloropropene	3.75	4.22	4.29	113	114	70.0-130			1.65	25
1,4-Dioxane	3.75	4.21	4.34	112	116	70.0-140			3.04	25
Ethanol	3.75	3.68	3.73	98.1	99.5	55.0-148			1.35	25
Ethylbenzene	3.75	4.19	4.20	112	112	70.0-130			0.238	25
4-Ethyltoluene	3.75	4.20	4.15	112	111	70.0-130			1.20	25
Trichlorofluoromethane	3.75	4.05	3.95	108	105	70.0-130			2.50	25
Dichlorodifluoromethane	3.75	3.64	3.69	97.1	98.4	64.0-139			1.36	25
1,1,2-Trichlorotrifluoroethane	3.75	4.27	4.10	114	109	70.0-130			4.06	25
1,2-Dichlorotetrafluoroethane	3.75	4.33	4.19	115	112	70.0-130			3.29	25
Heptane	3.75	4.34	4.38	116	117	70.0-130			0.917	25
Hexachloro-1,3-butadiene	3.75	3.95	3.94	105	105	70.0-151			0.253	25
n-Hexane	3.75	4.41	4.34	118	116	70.0-130			1.60	25
Isopropylbenzene	3.75	4.30	4.13	115	110	70.0-130			4.03	25
Methylene Chloride	3.75	4.11	3.99	110	106	70.0-130			2.96	25
Methyl Butyl Ketone	3.75	4.43	4.45	118	119	70.0-149			0.450	25
2-Butanone (MEK)	3.75	4.32	4.32	115	115	70.0-130			0.000	25

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

(LCS) R4040742-1 03/01/24 09:18 • (LCSD) R4040742-2 03/01/24 10:07

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	4.30	4.36	115	116	70.0-139			1.39	25
Methyl methacrylate	3.75	4.23	4.26	113	114	70.0-130			0.707	25
MTBE	3.75	4.37	4.24	117	113	70.0-130			3.02	25
Naphthalene	3.75	4.23	4.17	113	111	70.0-159			1.43	25
2-Propanol	3.75	4.22	4.16	113	111	70.0-139			1.43	25
Propene	3.75	4.13	4.09	110	109	64.0-144			0.973	25
Styrene	3.75	4.19	4.28	112	114	70.0-130			2.13	25
1,1,2,2-Tetrachloroethane	3.75	4.14	4.12	110	110	70.0-130			0.484	25
Tetrachloroethylene	3.75	4.14	4.20	110	112	70.0-130			1.44	25
Tetrahydrofuran	3.75	4.32	4.24	115	113	70.0-137			1.87	25
Toluene	3.75	4.21	4.27	112	114	70.0-130			1.42	25
1,2,4-Trichlorobenzene	3.75	3.98	3.99	106	106	70.0-160			0.251	25
1,1,1-Trichloroethane	3.75	4.19	4.05	112	108	70.0-130			3.40	25
1,1,2-Trichloroethane	3.75	4.26	4.32	114	115	70.0-130			1.40	25
Trichloroethylene	3.75	4.20	4.15	112	111	70.0-130			1.20	25
1,2,4-Trimethylbenzene	3.75	4.23	4.19	113	112	70.0-130			0.950	25
1,3,5-Trimethylbenzene	3.75	4.24	4.12	113	110	70.0-130			2.87	25
2,2,4-Trimethylpentane	3.75	4.30	4.28	115	114	70.0-130			0.466	25
Vinyl chloride	3.75	4.18	4.02	111	107	70.0-130			3.90	25
Vinyl Bromide	3.75	4.01	3.87	107	103	70.0-130			3.55	25
Vinyl acetate	3.75	3.94	4.12	105	110	70.0-130			4.47	25
Xylenes, Total	11.3	12.7	12.8	112	113	70.0-130			0.784	25
m&p-Xylene	7.50	8.48	8.57	113	114	70.0-130			1.06	25
o-Xylene	3.75	4.18	4.21	111	112	70.0-130			0.715	25
(S) 1,4-Bromofluorobenzene				*98.5*	*96.7*	*60.0-140*				

Method Blank (MB)

(MB) R4041300-3 03/03/24 11:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL 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	0.267	J	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

Method Blank (MB)

(MB) R4041300-3 03/03/24 11:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL 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	*97.5*			*60.0-140*

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

(LCS) R4041300-1 03/03/24 08:15 • (LCSD) R4041300-2 03/03/24 08:52

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.02	3.81	107	102	70.0-130			5.36	25
Allyl chloride	3.75	4.49	4.43	120	118	70.0-130			1.35	25
Benzene	3.75	3.92	3.98	105	106	70.0-130			1.52	25
Benzyl Chloride	3.75	4.08	4.10	109	109	70.0-152			0.489	25

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

(LCS) R4041300-1 03/03/24 08:15 • (LCSD) R4041300-2 03/03/24 08:52

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	4.18	4.18	111	111	70.0-130			0.000	25
Bromoform	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Bromomethane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
1,3-Butadiene	3.75	4.27	4.14	114	110	70.0-130			3.09	25
Carbon disulfide	3.75	4.21	3.99	112	106	70.0-130			5.37	25
Carbon tetrachloride	3.75	4.21	4.04	112	108	70.0-130			4.12	25
Chlorobenzene	3.75	3.82	3.83	102	102	70.0-130			0.261	25
Chloroethane	3.75	4.18	4.26	111	114	70.0-130			1.90	25
Chloroform	3.75	3.97	3.88	106	103	70.0-130			2.29	25
Chloromethane	3.75	4.17	4.09	111	109	70.0-130			1.94	25
2-Chlorotoluene	3.75	4.10	4.07	109	109	70.0-130			0.734	25
Cyclohexane	3.75	3.91	3.82	104	102	70.0-130			2.33	25
Dibromochloromethane	3.75	4.01	4.00	107	107	70.0-130			0.250	25
1,2-Dibromoethane	3.75	4.03	3.93	107	105	70.0-130			2.51	25
1,2-Dichlorobenzene	3.75	3.93	3.91	105	104	70.0-130			0.510	25
1,3-Dichlorobenzene	3.75	3.98	3.98	106	106	70.0-130			0.000	25
1,4-Dichlorobenzene	3.75	3.88	3.91	103	104	70.0-130			0.770	25
1,2-Dichloroethane	3.75	4.02	4.09	107	109	70.0-130			1.73	25
1,1-Dichloroethane	3.75	4.38	4.00	117	107	70.0-130			9.07	25
1,1-Dichloroethene	3.75	4.38	4.29	117	114	70.0-130			2.08	25
cis-1,2-Dichloroethene	3.75	4.23	3.92	113	105	70.0-130			7.61	25
trans-1,2-Dichloroethene	3.75	4.46	4.16	119	111	70.0-130			6.96	25
1,2-Dichloropropane	3.75	3.87	3.90	103	104	70.0-130			0.772	25
cis-1,3-Dichloropropene	3.75	4.05	4.12	108	110	70.0-130			1.71	25
trans-1,3-Dichloropropene	3.75	4.19	4.06	112	108	70.0-130			3.15	25
1,4-Dioxane	3.75	3.63	3.73	96.8	99.5	70.0-140			2.72	25
Ethanol	3.75	4.42	4.36	118	116	55.0-148			1.37	25
Ethylbenzene	3.75	3.84	3.86	102	103	70.0-130			0.519	25
4-Ethyltoluene	3.75	4.14	4.13	110	110	70.0-130			0.242	25
Trichlorofluoromethane	3.75	4.28	4.30	114	115	70.0-130			0.466	25
Dichlorodifluoromethane	3.75	3.92	3.80	105	101	64.0-139			3.11	25
1,1,2-Trichlorotrifluoroethane	3.75	4.21	4.14	112	110	70.0-130			1.68	25
1,2-Dichlorotetrafluoroethane	3.75	4.05	4.00	108	107	70.0-130			1.24	25
Heptane	3.75	4.21	3.97	112	106	70.0-130			5.87	25
Hexachloro-1,3-butadiene	3.75	3.94	3.90	105	104	70.0-151			1.02	25
n-Hexane	3.75	4.16	3.80	111	101	70.0-130			9.05	25
Isopropylbenzene	3.75	3.84	3.77	102	101	70.0-130			1.84	25
Methylene Chloride	3.75	4.32	4.04	115	108	70.0-130			6.70	25
Methyl Butyl Ketone	3.75	3.89	3.89	104	104	70.0-149			0.000	25
2-Butanone (MEK)	3.75	4.10	3.96	109	106	70.0-130			3.47	25

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

(LCS) R4041300-1 03/03/24 08:15 • (LCSD) R4041300-2 03/03/24 08:52

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	3.96	3.98	106	106	70.0-139			0.504	25
Methyl methacrylate	3.75	3.91	4.04	104	108	70.0-130			3.27	25
MTBE	3.75	3.95	3.81	105	102	70.0-130			3.61	25
Naphthalene	3.75	3.67	3.70	97.9	98.7	70.0-159			0.814	25
2-Propanol	3.75	3.83	3.79	102	101	70.0-139			1.05	25
Propene	3.75	4.11	4.00	110	107	64.0-144			2.71	25
Styrene	3.75	4.18	4.11	111	110	70.0-130			1.69	25
1,1,2,2-Tetrachloroethane	3.75	4.06	4.05	108	108	70.0-130			0.247	25
Tetrachloroethylene	3.75	3.64	3.68	97.1	98.1	70.0-130			1.09	25
Tetrahydrofuran	3.75	3.98	3.93	106	105	70.0-137			1.26	25
Toluene	3.75	3.88	3.87	103	103	70.0-130			0.258	25
1,2,4-Trichlorobenzene	3.75	4.02	4.02	107	107	70.0-160			0.000	25
1,1,1-Trichloroethane	3.75	4.16	4.13	111	110	70.0-130			0.724	25
1,1,2-Trichloroethane	3.75	4.09	4.09	109	109	70.0-130			0.000	25
Trichloroethylene	3.75	3.81	3.83	102	102	70.0-130			0.524	25
1,2,4-Trimethylbenzene	3.75	4.01	4.04	107	108	70.0-130			0.745	25
1,3,5-Trimethylbenzene	3.75	4.06	4.08	108	109	70.0-130			0.491	25
2,2,4-Trimethylpentane	3.75	3.98	3.89	106	104	70.0-130			2.29	25
Vinyl chloride	3.75	4.20	4.16	112	111	70.0-130			0.957	25
Vinyl Bromide	3.75	4.22	4.17	113	111	70.0-130			1.19	25
Vinyl acetate	3.75	3.96	3.57	106	95.2	70.0-130			10.4	25
Xylenes, Total	11.3	11.5	11.6	102	103	70.0-130			0.866	25
m&p-Xylene	7.50	7.76	7.82	103	104	70.0-130			0.770	25
o-Xylene	3.75	3.70	3.77	98.7	101	70.0-130			1.87	25
(S) 1,4-Bromofluorobenzene				*98.8*	*98.9*	*60.0-140*				

Method Blank (MB)

(MB) R4041774-3 03/05/24 11:05

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Propanol	0.479	J	0.264	0.880
Tetrahydrofuran	U		0.0734	0.245
(S) 1,4-Bromofluorobenzene	*95.9*			*60.0-140*

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

(LCS) R4041774-1 03/05/24 09:24 • (LCSD) R4041774-2 03/05/24 10:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	3.29	3.89	87.7	104	70.0-139			16.7	25
Tetrahydrofuran	3.75	4.17	4.14	111	110	70.0-137			0.722	25
(S) 1,4-Bromofluorobenzene				*101*	*101*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Size: 8 1L 6L 1.4L
Tage Color: G W P B
Tubing Shunt
T/P#:

Scan QR code for instructions

J167

AN 2122/24

Air CHAIN-OF-CUSTODY Analytical Request Document

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

Pace

Pace® Location Requested (City/State): Kapur Inc: Milwaukee WI

Company Name: Drake Environmental, Inc.

Street Address: 7711 N. Port Washington Road

City, State Zip: Milwaukee WI 53217

Customer Project #:

Project Name: Fox Run

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET

Contact/Report To: Travis Peterson

Phone #: 414-254-6358

E-Mail: tpeterson@kapurinc.com

Invoice to: Robert Bach

Invoice E-Mail: Robert3Bach@gmail.com

Purchase Order # (if applicable):

Quote #:

State origin of sample(s):

Data Deliverables:

[ ] Level II [ ] Level III [ ] Level IV

[ ] EQUIS

[ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other 10 Day

Date Results Requested: ASAP

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPMV

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

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Field Information: Canister Pressure / Vacuum Start Pressure / Vacuum (in Hg)	Field Information: Canister Pressure / Vacuum End Pressure / Vacuum (in Hg)	Field Information: PUF / FILTER 24 hour Duration (minutes)	Field Information: PUF / FILTER Flow Rate m³/min or L/min	Field Information: PUF / FILTER Total Volume Sampled m³ or L	Analyses Requested: TO-15 Summa	Lab Use Only: Sample Comment
Bldg 3	I	13283	23166	2/21	9:08	2/22	8:36	-29	-3	24			X	L1709931 -01
Bldg 4		13309	29197		9:11		8:38	-29	-3					-02
Bldg E5 (111)		13296	11664		9:22		8:42	-29	-2					-03
Bldg E10 (104)		29405	15708		9:24		8:43	-30	-3					-04
Bldg E6 (118)		10878	11717		9:27		8:44	-30	-5					-05
Bldg E7 (170)		28042	28252		9:29		8:48	-30	-3					-06
Bldg E9 (163)		28836	11671		9:32		8:49	-27	-3					-07
Bldg D8 (181)		21177	10182		9:35		8:52	-27	-2					-08

Proj. Manager: 4089 - Andi R Jones

AcctNum / Client ID: KAPURMWF ORAENVMWI

Table #:

Profile / Template: T247227 T241818

Prelog / Bottle Ord. ID: P1087934 P1057080

Customer Remarks / Special Conditions / Possible Hazards:

NOTE: QUICK TURN REQUESTED (1 DAY IF POSSIBLE)

Collected By: CHARLES PEPPER

Printed Name: CHARLES PEPPER

Signature:

Additional Instructions from Pace®:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
	2/21 9:29A	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)

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

Date/Time:

Tracking Number:

Date/Time:

Delivered by: In- Person Courier FedEx UPS Other

Date/Time: 2-28-24 0900

Date/Time:

Page: of:

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/