



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

10 October 2022

Work Order: 2209245

Price: \$720.00

Amy Keranen

EGLE-RRD-UP

1504 W. Washington St.

Marquette, MI 49855

RE: CALUMET DRY CLEANER

This is the official environmental laboratory report for testing conducted by the Michigan Department of Environment, Great Lakes, and Energy. Analyses performed by the laboratory were conducted using methods published by the U.S. Environmental Protection Agency, Standard Methods for the Examination of Water and Wastewater, ASTM, or other published or approved reference methods.

Kirby Shane

Laboratory Director



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

EGLE-RRD-UP
1504 W. Washington St.
Marquette MI, 49855

Project: CALUMET DRY CLEANER
Site Code: 31000530
Project Manager: Amy Keranen

Reported:
10/10/2022

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
22VP01-SS	2209245-01	Air	09/22/2022	09/27/2022	
22VP02-SS	2209245-02	Air	09/22/2022	09/27/2022	
22VP03-SS	2209245-03	Air	09/22/2022	09/27/2022	
22VP04-SS	2209245-04	Air	09/22/2022	09/27/2022	

Notes and Definitions

Y11	Unidentified peaks present in sample.
X1	Method TO-15 is used for the analysis of volatile organic compounds in air. Naphthalene and 2-Methylnaphthalene are semi volatile compounds and results should be considered estimated.
T	Reported value is less than the reporting limit (RL). Result is estimated.
J	Reported value is less than the reporting limit (RL) and greater than the method detection limit (MDL). Result is estimated.
ND	Indicates compound analyzed for but not detected at or above the reporting limit (RL).
RL	Reporting Limit
NA	Not Applicable

*****Case Narrative*****

Samples were received **9/27/2022 9:13:00AM** for client **EGLE-RRD-UP** as a part of project **CALUMET DRY CLEANER**.

Samples were logged and designated as Work Order # **2209245** on **9/27/2022 9:16:00AM**.

This Report was created **10/10/2022 9:22:03AM**.

Additional Notes/Narrative (if applicable):



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP01-SS

Lab ID: 2209245-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	2.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
87-61-6	1,2,3-Trichlorobenzene	ND	7.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
96-18-4	1,2,3-Trichloropropane	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
526-73-8	1,2,3-Trimethylbenzene	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
120-82-1	1,2,4-Trichlorobenzene	ND	3.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
95-63-6	1,2,4-Trimethylbenzene	2.7	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
108-67-8	1,3,5-Trimethylbenzene	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
106-99-0	1,3-Butadiene	ND	0.65	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
540-84-1	2,2,4-Trimethylpentane	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
78-93-3	2-Butanone (MEK)	ND	14	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
91-57-6	2-Methylnaphthalene	ND	28	ug/m3	1	09/27/22	B2J0302	TO-15	CA	X1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
67-64-1	Acetone	ND	58	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-05-8	Acetonitrile	ND	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
71-43-2	Benzene	ND	0.94	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
108-86-1	Bromobenzene	ND	1.9	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-25-2	Bromoform	ND	3.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
74-83-9	Bromomethane	ND	1.1	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-15-0	Carbon disulfide	ND	0.91	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
56-23-5	Carbon tetrachloride	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-00-3	Chloroethane	0.84	0.77	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
67-66-3	Chloroform	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
74-87-3	Chloromethane	3.3	0.61	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
110-82-7	Cyclohexane	ND	1.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	09/27/22	B2J0302	TO-15	CA	



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP01-SS

Lab ID: 2209245-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
75-71-8	Dichlorodifluoromethane	2.7	1.5	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
60-29-7	Diethyl ether	ND	3.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
108-20-3	Diisopropyl Ether	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
64-17-5	Ethanol	ND	46	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
100-41-4	Ethylbenzene	1.8	1.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
637-92-3	Ethyltertiarybutylether	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
67-72-1	Hexachloroethane	ND	2.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
110-54-3	Hexane	ND	3.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
67-63-0	Isopropyl Alcohol	ND	60	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
98-82-8	Isopropylbenzene	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
1330-20-7	m & p - Xylene	7.3	1.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
96-37-7	Methylcyclopentane	ND	1.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-09-2	Methylene chloride	ND	1.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
91-20-3	Naphthalene	ND	26	ug/m3	1	09/27/22	B2J0302	TO-15	CA	X1
104-51-8	n-Butylbenzene	ND	5.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
142-82-5	n-Heptane	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
103-65-1	n-Propylbenzene	ND	1.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
95-47-6	o-Xylene	2.2	1.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
109-66-0	Pentane	ND	2.9	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
135-98-8	sec-Butylbenzene	ND	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
100-42-5	Styrene	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
98-06-6	tert-Butylbenzene	ND	5.4	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-65-0	tertiary Butyl Alcohol	ND	74	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
994-05-8	tertiaryAmylmethylether	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
127-18-4	Tetrachloroethylene	18	2.0	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
109-99-9	Tetrahydrofuran	ND	0.86	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
108-88-3	Toluene	10	1.1	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-69-4	Trichlorofluoromethane	44	1.6	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
75-01-4	Vinyl chloride	ND	0.75	ug/m3	1	09/27/22	B2J0302	TO-15	CA	
Surrogate: Bromofluorobenzene			98.3 %	70-130		09/27/22	B2J0302	TO-15	CA	



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP02-SS

Lab ID: 2209245-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										See note Y11
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	2.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
87-61-6	1,2,3-Trichlorobenzene	ND	7.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-18-4	1,2,3-Trichloropropane	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
526-73-8	1,2,3-Trimethylbenzene	1.3	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	T
120-82-1	1,2,4-Trichlorobenzene	ND	3.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-63-6	1,2,4-Trimethylbenzene	6.1	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-67-8	1,3,5-Trimethylbenzene	2.2	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-99-0	1,3-Butadiene	ND	0.66	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
540-84-1	2,2,4-Trimethylpentane	5.3	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
78-93-3	2-Butanone (MEK)	ND	15	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
91-57-6	2-Methylnaphthalene	ND	29	ug/m3	1	09/28/22	B2J0310	TO-15	CA	X1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-64-1	Acetone	420	59	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-05-8	Acetonitrile	ND	1.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
71-43-2	Benzene	16	0.95	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-86-1	Bromobenzene	ND	1.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-25-2	Bromoform	ND	3.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
74-83-9	Bromomethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-15-0	Carbon disulfide	13	0.93	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-00-3	Chloroethane	ND	0.79	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-66-3	Chloroform	4.3	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
74-87-3	Chloromethane	2.3	0.62	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
110-82-7	Cyclohexane	8.8	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP02-SS

Lab ID: 2209245-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										See note Y11
75-71-8	Dichlorodifluoromethane	2.2	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
60-29-7	Diethyl ether	ND	3.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-20-3	Diisopropyl Ether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
64-17-5	Ethanol	71	47	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
100-41-4	Ethylbenzene	7.2	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
637-92-3	Ethyltertiarybutylether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-72-1	Hexachloroethane	ND	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
110-54-3	Hexane	9.2	3.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-63-0	Isopropyl Alcohol	ND	61	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
98-82-8	Isopropylbenzene	ND	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
1330-20-7	m & p - Xylene	32	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-37-7	Methylcyclopentane	17	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-09-2	Methylene chloride	ND	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
91-20-3	Naphthalene	ND	26	ug/m3	1	09/28/22	B2J0310	TO-15	CA	X1
104-51-8	n-Butylbenzene	ND	5.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
142-82-5	n-Heptane	8.4	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
103-65-1	n-Propylbenzene	ND	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-47-6	o-Xylene	12	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
109-66-0	Pentane	15	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
135-98-8	sec-Butylbenzene	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
100-42-5	Styrene	ND	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
98-06-6	tert-Butylbenzene	ND	5.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-65-0	tertiary Butyl Alcohol	ND	75	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
994-05-8	tertiaryAmylmethylether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
127-18-4	Tetrachloroethylene	5.9	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
109-99-9	Tetrahydrofuran	ND	0.88	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-88-3	Toluene	69	1.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-69-4	Trichlorofluoromethane	ND	1.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-01-4	Vinyl chloride	ND	0.76	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
Surrogate: Bromofluorobenzene			98.3 %	70-130		09/28/22	B2J0310	TO-15	CA	



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP03-SS

Lab ID: 2209245-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
71-55-6	1,1,1-Trichloroethane	ND	16	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
79-00-5	1,1,2-Trichloroethane	ND	16	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	23	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-34-3	1,1-Dichloroethane	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-35-4	1,1-Dichloroethylene	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
87-61-6	1,2,3-Trichlorobenzene	ND	74	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
96-18-4	1,2,3-Trichloropropane	ND	18	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
526-73-8	1,2,3-Trimethylbenzene	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
120-82-1	1,2,4-Trichlorobenzene	ND	37	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
95-63-6	1,2,4-Trimethylbenzene	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
96-12-8	1,2-Dibromo-3-chloropropane	ND	29	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
106-93-4	1,2-Dibromoethane	ND	23	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
95-50-1	1,2-Dichlorobenzene	ND	18	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
107-06-2	1,2-Dichloroethane	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
78-87-5	1,2-Dichloropropane	ND	14	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
108-67-8	1,3,5-Trimethylbenzene	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
106-99-0	1,3-Butadiene	ND	6.6	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
541-73-1	1,3-Dichlorobenzene	ND	18	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
106-46-7	1,4-Dichlorobenzene	ND	18	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
540-84-1	2,2,4-Trimethylpentane	ND	14	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
78-93-3	2-Butanone (MEK)	ND	150	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
91-57-6	2-Methylnaphthalene	ND	290	ug/m3	10	09/28/22	B2J0310	TO-15	CA	X1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	41	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
67-64-1	Acetone	1300	590	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-05-8	Acetonitrile	ND	17	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
107-13-1	Acrylonitrile	ND	11	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
71-43-2	Benzene	ND	9.5	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
108-86-1	Bromobenzene	ND	19	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-27-4	Bromodichloromethane	ND	20	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-25-2	Bromoform	ND	31	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
74-83-9	Bromomethane	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-15-0	Carbon disulfide	ND	9.3	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
56-23-5	Carbon tetrachloride	ND	19	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
108-90-7	Chlorobenzene	ND	14	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-00-3	Chloroethane	ND	7.9	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
67-66-3	Chloroform	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
74-87-3	Chloromethane	ND	6.2	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
156-59-2	cis-1,2-Dichloroethylene	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
10061-01-5	cis-1,3-Dichloropropylene	ND	14	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
110-82-7	Cyclohexane	ND	10	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
124-48-1	Dibromochloromethane	ND	25	ug/m3	10	09/28/22	B2J0310	TO-15	CA	



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP03-SS

Lab ID: 2209245-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
75-71-8	Dichlorodifluoromethane	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
60-29-7	Diethyl ether	ND	30	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
108-20-3	Diisopropyl Ether	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
64-17-5	Ethanol	24000	470	ug/m3	10	09/28/22	B2J0310	TO-15	CA	J
100-41-4	Ethylbenzene	ND	13	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
637-92-3	Ethyltertiarybutylether	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
67-72-1	Hexachloroethane	ND	29	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
110-54-3	Hexane	ND	35	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
67-63-0	Isopropyl Alcohol	ND	610	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
98-82-8	Isopropylbenzene	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
1330-20-7	m & p - Xylene	ND	13	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
96-37-7	Methylcyclopentane	ND	10	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-09-2	Methylene chloride	ND	10	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
1634-04-4	Methyltertiarybutylether	ND	18	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
91-20-3	Naphthalene	ND	260	ug/m3	10	09/28/22	B2J0310	TO-15	CA	X1
104-51-8	n-Butylbenzene	ND	55	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
142-82-5	n-Heptane	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
103-65-1	n-Propylbenzene	ND	15	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
95-47-6	o-Xylene	ND	13	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
109-66-0	Pentane	ND	29	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
135-98-8	sec-Butylbenzene	ND	16	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
100-42-5	Styrene	ND	13	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
98-06-6	tert-Butylbenzene	ND	55	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-65-0	tertiary Butyl Alcohol	2400	750	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
994-05-8	tertiaryAmylmethylether	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
127-18-4	Tetrachloroethylene	ND	20	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
109-99-9	Tetrahydrofuran	ND	8.8	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
108-88-3	Toluene	18	11	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
156-60-5	trans-1,2-Dichloroethylene	ND	12	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
10061-02-6	trans-1,3-Dichloropropylene	ND	14	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
79-01-6	Trichloroethylene	ND	16	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-69-4	Trichlorofluoromethane	ND	17	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
75-01-4	Vinyl chloride	ND	7.6	ug/m3	10	09/28/22	B2J0310	TO-15	CA	
Surrogate: Bromofluorobenzene			96.4 %	70-130		09/28/22	B2J0310	TO-15	CA	



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP04-SS

Lab ID: 2209245-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
71-55-6	1,1,1-Trichloroethane	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	2.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
87-61-6	1,2,3-Trichlorobenzene	ND	7.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-18-4	1,2,3-Trichloropropane	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
526-73-8	1,2,3-Trimethylbenzene	2.8	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
120-82-1	1,2,4-Trichlorobenzene	ND	3.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-63-6	1,2,4-Trimethylbenzene	13	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-67-8	1,3,5-Trimethylbenzene	3.3	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-99-0	1,3-Butadiene	ND	0.66	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
540-84-1	2,2,4-Trimethylpentane	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
78-93-3	2-Butanone (MEK)	ND	15	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
91-57-6	2-Methylnaphthalene	ND	29	ug/m3	1	09/28/22	B2J0310	TO-15	CA	X1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-64-1	Acetone	ND	59	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-05-8	Acetonitrile	ND	1.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
71-43-2	Benzene	ND	0.95	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-86-1	Bromobenzene	ND	1.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-25-2	Bromoform	ND	3.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
74-83-9	Bromomethane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-15-0	Carbon disulfide	ND	0.93	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-00-3	Chloroethane	0.96	0.79	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-66-3	Chloroform	ND	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
74-87-3	Chloromethane	3.1	0.62	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
110-82-7	Cyclohexane	ND	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	



**MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
ENVIRONMENTAL LABORATORY**

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Client ID: 22VP04-SS

Lab ID: 2209245-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
75-71-8	Dichlorodifluoromethane	1.9	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
60-29-7	Diethyl ether	ND	3.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-20-3	Diisopropyl Ether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
64-17-5	Ethanol	ND	47	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
100-41-4	Ethylbenzene	3.7	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
637-92-3	Ethyltertiarybutylether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-72-1	Hexachloroethane	ND	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
110-54-3	Hexane	ND	3.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
67-63-0	Isopropyl Alcohol	ND	61	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
98-82-8	Isopropylbenzene	ND	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
1330-20-7	m & p - Xylene	16	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
96-37-7	Methylcyclopentane	ND	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-09-2	Methylene chloride	ND	1.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
91-20-3	Naphthalene	ND	26	ug/m3	1	09/28/22	B2J0310	TO-15	CA	X1
104-51-8	n-Butylbenzene	ND	5.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
142-82-5	n-Heptane	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
103-65-1	n-Propylbenzene	2.1	1.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
95-47-6	o-Xylene	7.6	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
109-66-0	Pentane	ND	2.9	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
135-98-8	sec-Butylbenzene	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
100-42-5	Styrene	ND	1.3	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
98-06-6	tert-Butylbenzene	ND	5.5	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-65-0	tertiary Butyl Alcohol	ND	75	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
994-05-8	tertiaryAmylmethylether	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
127-18-4	Tetrachloroethylene	3.7	2.0	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
109-99-9	Tetrahydrofuran	ND	0.88	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
108-88-3	Toluene	8.7	1.1	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.4	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
75-69-4	Trichlorofluoromethane	1.5	1.7	ug/m3	1	09/28/22	B2J0310	TO-15	CA	T
75-01-4	Vinyl chloride	ND	0.76	ug/m3	1	09/28/22	B2J0310	TO-15	CA	
<i>Surrogate: Bromofluorobenzene</i>			98.5 %	70-130		09/28/22	B2J0310	TO-15	CA	



Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2269245

Calumet Dry Cleaners

AIR

Location ID

Program

CC Email 1

Project TAT Days

Sample Collector

31000530

Activity

pincumbel@michigan.gov

Project Due Date

0. 514

Dept-Division-District

Funding Source

CC Email 2

Project Due Date

Sample Collector Phone

EGLE-RRD-Marquette

Location Code

laloieb@michigan.gov

Project Due Date

517 2751057

State Project Manager

Overflow Lab Choice 1

CC Email 3

Accept Analysis hold time codes

Contract Firm

Amy Keranan

Overflow Lab Choice 2

51400@michigan.gov

Accept Analysis hold time codes

Contract Firm Primary Contact

State Project Manager Email

SUB Location Code

6H66

Accept Analysis hold time codes

Contract Firm Primary Contact

State Project Manager Phone

SUB Location Code

6H66

Accept Analysis hold time codes

Primary Contact Phone

906-337-0389

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments	Regulator ID	Canister/Bottle Vac Number
1	G1 22VP01-SS	9/22	1054	1		814	1315
2	G2 22VP02-SS	9/22	951	1		822	1422
3	G3 22VP03-SS	9/22	1027	1		829	1840
4	G4 22VP04-SS	9/22	1319	1		842	1770
5							
6							
7							
8							
9							
10							

ORGANIC CHEMISTRY

VOA - Volatile Organic Analysis

Bottlevac 1 2 3 4 5 6 7 8 9 10
Canister - AQD 1 2 3 4 5 6 7 8 9 10
Canister - RRD 1 2 3 4 5 6 7 8 9 10
Tedlar - Volatiles 1 2 3 4 5 6 7 8 9 10

METH - Methane, Ethane, Ethene

Methane, Ethane, Ethene 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name & Org. Oliva SM RRD/BS	Eli Brintlinger	9/23/22
	Signature: [Signature]		8:22
	Print Name & Org. Eli Brintlinger RRD/BS	Melissa Smith	9/27/22 9:13
	Signature: [Signature]		
	Print Name & Org.		
	Signature: [Signature]		
	Print Name & Org.		