MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

**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

24 June 2022

Work Order: 2206062

Price: $180.00

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

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EGLE-RRD-UP	Project: CALUMET DRY CLEANER	
1504 W. Washington St.	Site Code: 31000530	**Reported:**
Marquette MI, 49855	Project Manager: Amy Keranen	06/24/2022

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
22VP01-SS	2206062-01	Air	06/03/2022	06/09/2022	

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.
A10	Result(s) and reporting limit(s) are estimated due to low initial verification standard criteria failure.
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 **6/9/2022 2:05:00PM** for client **EGLE-RRD-UP** as a part of project **CALUMET DRY CLEANER**.

Samples were logged and designated as Work Order # **2206062** on **6/9/2022 2:56:00PM**.

This Report was created **6/24/2022 10:33:13AM**.

Additional Notes/Narrative (if applicable):

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Client ID: 22VP01-SS

Lab ID: 2206062-01

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	06/15/22	B2F1713	TO-15	CA	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-34-3	1,1-Dichloroethane	ND	1.2	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-35-4	1,1-Dichloroethylene	ND	1.2	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
87-61-6	1,2,3-Trichlorobenzene	ND	7.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
96-18-4	1,2,3-Trichloropropane	ND	1.8	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
526-73-8	**1,2,3-Trimethylbenzene**	**1.5**	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
120-82-1	1,2,4-Trichlorobenzene	ND	3.6	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
95-63-6	**1,2,4-Trimethylbenzene**	**7.0**	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
106-93-4	1,2-Dibromoethane	ND	2.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
107-06-2	1,2-Dichloroethane	ND	1.2	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
108-67-8	**1,3,5-Trimethylbenzene**	**1.9**	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
106-99-0	1,3-Butadiene	ND	0.65	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
540-84-1	**2,2,4-Trimethylpentane**	**4.4**	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
78-93-3	2-Butanone (MEK)	ND	14	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
91-57-6	2-Methylnaphthalene	ND	29	ug/m3	1	06/15/22	B2F1713	TO-15	CA	A10, X1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	4.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-05-8	Acetonitrile	ND	1.6	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
107-13-1	Acrylonitrile	ND	1.1	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
71-43-2	**Benzene**	**3.8**	0.94	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-27-4	Bromodichloromethane	ND	2.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-25-2	Bromoform	ND	3.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
74-83-9	Bromomethane	ND	1.1	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
56-23-5	Carbon tetrachloride	ND	1.9	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
108-90-7	Chlorobenzene	ND	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-00-3	Chloroethane	ND	0.78	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
67-66-3	Chloroform	ND	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
74-87-3	**Chloromethane**	**0.63**	0.61	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
156-59-2	cis-1,2-Dichloroethylene	ND	1.2	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
110-82-7	**Cyclohexane**	**2.8**	1.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
124-48-1	Dibromochloromethane	ND	2.5	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-71-8	**Dichlorodifluoromethane**	**3.0**	1.5	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
100-41-4	**Ethylbenzene**	**6.7**	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	

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Lab ID: 2206062-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										**See note Y11**
110-54-3	Hexane	ND	3.5	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
98-82-8	Isopropylbenzene	ND	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
1330-20-7	**m & p - Xylene**	**26**	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-09-2	Methylene chloride	ND	1.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
1634-04-4	Methyltertiarybutylether	ND	1.8	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
91-20-3	Naphthalene	ND	26	ug/m3	1	06/15/22	B2F1713	TO-15	CA	X1
104-51-8	n-Butylbenzene	ND	5.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
103-65-1	**n-Propylbenzene**	**1.5**	1.4	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
95-47-6	**o-Xylene**	**8.8**	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
135-98-8	sec-Butylbenzene	ND	1.6	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
100-42-5	Styrene	ND	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
127-18-4	**Tetrachloroethylene**	**8.1**	2.0	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
108-88-3	**Toluene**	**50**	1.1	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
156-60-5	trans-1,2-Dichloroethylene	ND	1.2	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.3	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
79-01-6	Trichloroethylene	ND	1.6	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-69-4	**Trichlorofluoromethane**	**13**	1.7	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
75-01-4	Vinyl chloride	ND	0.75	ug/m3	1	06/15/22	B2F1713	TO-15	CA	
Surrogate: Bromofluorobenzene			*94.7 %*	*70-130*		*06/15/22*	B2F1713	*TO-15*	*CA*	

Lab Work Order # 2206062

Department of Environment, Great Lakes, and Energy
Laboratory Services Section

Analysis Request Sheet

Lab Work Order Number	Project Name	Matrix
2206062	Calumet Drycleaner	AIR

Location ID	Program	CC Email 1	Project TAT Days	Sample Collector	
		DNcumbej@Mi.gov		O. SLY	
Dept-Division-District	Activity	CC Email 2	Project Due Date	Sample Collector Phone	
RRD - U.P.		cajoieb@Mi.gov		517 275 1655	
State Project Manager	Funding Source	CC Email 3		Contract Firm	
Amy Keranen			Accept Analysis hold time codes		
State Project Manager Email	Location Code	Overflow Lab Choice 1		Contract Firm Primary Contact	
KeranenA					
State Project Manager Phone	SUD Location Code	Overflow Lab Choice 2		Primary Contact Phone	

	Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments	Regulator ID	Canister/Bottle Vac Number
1	01	22VP01-SS	6/3/22	1505	1	-	722	1716
2								
3								
4								
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. Brandon LaJoie EGLE	Melissa Smith	
Signature: Brandon LaJoie		6/9/22 1405
Print Name & Org.		
Signature:		
Print Name & Org.		
Signature:		