

29 June 2022

Work Order: 2206061

Price: \$690.00

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

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

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

Reported:
06/29/2022

Analytical Report for Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Qualifier
CF-TMW-06	2206061-01	Water	06/07/2022	06/09/2022	
CF-TMW-10	2206061-02	Water	06/07/2022	06/09/2022	
CF-TMW-11	2206061-03	Water	06/07/2022	06/09/2022	
CF-TMW-11 DUP	2206061-04	Water	06/07/2022	06/09/2022	
CF-TMW-12	2206061-05	Water	06/07/2022	06/09/2022	
CF-TMW-13	2206061-06	Water	06/07/2022	06/09/2022	

Notes and Definitions

- Y11 Unidentified peaks present in sample.
- T Reported value is less than the reporting limit (RL). Result is estimated.
- A11 Result is estimated due to high initial verification standard criteria failure.
- A09 Result is estimated due to high recovery of batch QC.
- A06 Result is estimated due to high continuing calibration standard criteria failure.
- A05 Result(s) and reporting limit(s) are estimated due to low continuing calibration standard criteria failure.
- A04 Result is estimated due to high matrix spike recovery.
- A03 Result(s) and reporting limit(s) are estimated due to low matrix spike recovery.
- 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 2:04:00PM** for client **EGLE-RRD-UP** as a part of project **CALUMET DRY CLEANER**.

Samples were logged and designated as Work Order # **2206061** on **6/9/2022 2:54:00PM**.

This Report was created **6/29/2022 3:12:19PM**.

Additional Notes/Narrative (if applicable):



MICHIGAN DEPARTMENT OF
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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: CF-TMW-06

Lab ID: 2206061-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-34-3	1,1-Dichloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-35-4	1,1-Dichloroethylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
87-61-6	1,2,3-Trichlorobenzene	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
526-73-8	1,2,3-Trimethylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
120-82-1	1,2,4-Trichlorobenzene	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
96-12-8	1,2-Dibromo-3-chloropropane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
106-93-4	1,2-Dibromoethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
95-50-1	1,2-Dichlorobenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
107-06-2	1,2-Dichloroethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
78-87-5	1,2-Dichloropropane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
541-73-1	1,3-Dichlorobenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
106-46-7	1,4-Dichlorobenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
540-84-1	2,2,4-Trimethylpentane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
78-93-3	2-Butanone (MEK)	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
91-57-6	2-Methylnaphthalene	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	A05
67-64-1	2-Propanone (acetone)	ND	210	ug/L	10.5	06/17/22	B2F1602	8260	KB	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
107-13-1	Acrylonitrile	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
71-43-2	Benzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
74-97-5	Bromochloromethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-27-4	Bromodichloromethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-25-2	Bromoform	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
74-83-9	Bromomethane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-15-0	Carbon disulfide	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
56-23-5	Carbon tetrachloride	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
108-90-7	Chlorobenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-00-3	Chloroethane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
67-66-3	Chloroform	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
74-87-3	Chloromethane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
156-59-2	cis-1,2-Dichloroethylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
10061-01-5	cis-1,3-Dichloropropylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
110-82-7	Cyclohexane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	



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Client ID: CF-TMW-06

Lab ID: 2206061-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
74-95-3	Dibromomethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-71-8	Dichlorodifluoromethane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
60-29-7	Diethyl ether	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
108-20-3	Diisopropyl Ether	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
100-41-4	Ethylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
637-92-3	Ethyltertiarybutylether	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
67-72-1	Hexachloroethane	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
110-54-3	Hexane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
98-82-8	Isopropylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
1330-20-7	m & p - Xylene	ND	21	ug/L	10.5	06/17/22	B2F1602	8260	KB	
96-37-7	Methylcyclopentane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-09-2	Methylene chloride	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
1634-04-4	Methyltertiarybutylether	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
91-20-3	Naphthalene	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
104-51-8	n-Butylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
142-82-5	n-Heptane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
103-65-1	n-Propylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
95-47-6	o-Xylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
135-98-8	sec-Butylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
100-42-5	Styrene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
98-06-6	tert-Butylbenzene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-65-0	tertiary Butyl Alcohol	ND	520	ug/L	10.5	06/17/22	B2F1602	8260	KB	
994-05-8	tertiaryAmylmethylether	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
127-18-4	Tetrachloroethylene	1800	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
109-99-9	Tetrahydrofuran	ND	52	ug/L	10.5	06/17/22	B2F1602	8260	KB	
108-88-3	Toluene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
156-60-5	trans-1,2-Dichloroethylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
10061-02-6	trans-1,3-Dichloropropylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
79-01-6	Trichloroethylene	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-69-4	Trichlorofluoromethane	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
75-01-4	Vinyl chloride	ND	10	ug/L	10.5	06/17/22	B2F1602	8260	KB	
Surrogate: Bromofluorobenzene			98.9 %	85-115	06/17/22	B2F1602	8260	KB		
Surrogate: Dibromofluoromethane			100 %	82.7-115	06/17/22	B2F1602	8260	KB		
Surrogate: Toluene-d8			98.4 %	85-115	06/17/22	B2F1602	8260	KB		



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

Client ID: CF-TMW-10

Lab ID: 2206061-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	06/14/22	B2F1401	8260	KB	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
71-43-2	Benzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-25-2	Bromoform	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
74-83-9	Bromomethane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-00-3	Chloroethane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
67-66-3	Chloroform	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
74-87-3	Chloromethane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	



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Lab ID: 2206061-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
110-54-3	Hexane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	06/14/22	B2F1401	8260	KB	
96-37-7	Methylcyclopentane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
91-20-3	Naphthalene	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
142-82-5	n-Heptane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
95-47-6	o-Xylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
100-42-5	Styrene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	06/14/22	B2F1401	8260	KB	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
127-18-4	Tetrachloroethylene	450	5.2	ug/L	5.25	06/17/22	B2F1401	8260	KB	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	06/14/22	B2F1401	8260	KB	
108-88-3	Toluene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	06/14/22	B2F1401	8260	KB	
Surrogate: Bromofluorobenzene			98.5 %	85-115		06/14/22	B2F1401	8260	KB	
Surrogate: Dibromofluoromethane			85.0 %	82.7-115		06/14/22	B2F1401	8260	KB	
Surrogate: Toluene-d8			97.9 %	85-115		06/14/22	B2F1401	8260	KB	



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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

Client ID: CF-TMW-11

Lab ID: 2206061-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
71-55-6	1,1,1-Trichloroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
79-34-5	1,1,2,2-Tetrachloroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
79-00-5	1,1,2-Trichloroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-34-3	1,1-Dichloroethane	30	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-35-4	1,1-Dichloroethylene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
96-18-4	1,2,3-Trichloropropane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
526-73-8	1,2,3-Trimethylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
95-63-6	1,2,4-Trimethylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
106-93-4	1,2-Dibromoethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
95-50-1	1,2-Dichlorobenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
107-06-2	1,2-Dichloroethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
78-87-5	1,2-Dichloropropane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
108-67-8	1,3,5-Trimethylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
541-73-1	1,3-Dichlorobenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
106-46-7	1,4-Dichlorobenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
540-84-1	2,2,4-Trimethylpentane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
78-93-3	2-Butanone (MEK)	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
91-57-6	2-Methylnaphthalene	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	A05
67-64-1	2-Propanone (acetone)	ND	420	ug/L	21	06/17/22	B2F1602	8260	KB	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
107-13-1	Acrylonitrile	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
71-43-2	Benzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
74-97-5	Bromochloromethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-27-4	Bromodichloromethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-25-2	Bromoform	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
74-83-9	Bromomethane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
75-15-0	Carbon disulfide	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
56-23-5	Carbon tetrachloride	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
108-90-7	Chlorobenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-00-3	Chloroethane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
67-66-3	Chloroform	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
74-87-3	Chloromethane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
156-59-2	cis-1,2-Dichloroethylene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
10061-01-5	cis-1,3-Dichloropropylene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
110-82-7	Cyclohexane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	



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Client ID: CF-TMW-11

Lab ID: 2206061-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
74-95-3	Dibromomethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-71-8	Dichlorodifluoromethane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
60-29-7	Diethyl ether	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
108-20-3	Diisopropyl Ether	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
100-41-4	Ethylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
637-92-3	Ethyltertiarybutylether	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
67-72-1	Hexachloroethane	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
110-54-3	Hexane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
98-82-8	Isopropylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
1330-20-7	m & p - Xylene	ND	42	ug/L	21	06/17/22	B2F1602	8260	KB	
96-37-7	Methylcyclopentane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-09-2	Methylene chloride	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
1634-04-4	Methyltertiarybutylether	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
91-20-3	Naphthalene	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
104-51-8	n-Butylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
142-82-5	n-Heptane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
103-65-1	n-Propylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
95-47-6	o-Xylene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
135-98-8	sec-Butylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
100-42-5	Styrene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
98-06-6	tert-Butylbenzene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-65-0	tertiary Butyl Alcohol	ND	1000	ug/L	21	06/17/22	B2F1602	8260	KB	
994-05-8	tertiaryAmylmethylether	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
127-18-4	Tetrachloroethylene	16000	210	ug/L	210	06/17/22	B2F1602	8260	KB	
109-99-9	Tetrahydrofuran	ND	100	ug/L	21	06/17/22	B2F1602	8260	KB	
108-88-3	Toluene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
156-60-5	trans-1,2-Dichloroethylene	22	21	ug/L	21	06/17/22	B2F1602	8260	KB	
10061-02-6	trans-1,3-Dichloropropylene	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
79-01-6	Trichloroethylene	200	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-69-4	Trichlorofluoromethane	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
75-01-4	Vinyl chloride	ND	21	ug/L	21	06/17/22	B2F1602	8260	KB	
Surrogate: Bromofluorobenzene			101 %	85-115		06/17/22	B2F1602	8260	KB	
Surrogate: Dibromofluoromethane			96.8 %	82.7-115		06/17/22	B2F1602	8260	KB	
Surrogate: Toluene-d8			99.3 %	85-115		06/17/22	B2F1602	8260	KB	



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TEL: (517) 335-9800
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Client ID: CF-TMW-11 DUP

Lab ID: 2206061-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
71-55-6	1,1,1-Trichloroethane	6.8	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-34-3	1,1-Dichloroethane	35	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	A06
75-35-4	1,1-Dichloroethylene	9.1	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	06/14/22	B2F1406	8260	RC	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
71-43-2	Benzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-25-2	Bromoform	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
74-83-9	Bromomethane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-00-3	Chloroethane	7.0	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	A06
67-66-3	Chloroform	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
74-87-3	Chloromethane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
156-59-2	cis-1,2-Dichloroethylene	6.8	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	



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Lansing, MI 48909
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Client ID: CF-TMW-11 DUP

Lab ID: 2206061-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
110-54-3	Hexane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	06/14/22	B2F1406	8260	RC	
96-37-7	Methylcyclopentane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
91-20-3	Naphthalene	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
142-82-5	n-Heptane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
95-47-6	o-Xylene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
100-42-5	Styrene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	06/14/22	B2F1406	8260	RC	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
127-18-4	Tetrachloroethylene	16000	100	ug/L	105	06/15/22	B2F1406	8260	RC	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	06/14/22	B2F1406	8260	RC	
108-88-3	Toluene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
156-60-5	trans-1,2-Dichloroethylene	31	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	A06
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
79-01-6	Trichloroethylene	180	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	
75-01-4	Vinyl chloride	0.98	1.0	ug/L	1	06/14/22	B2F1406	8260	RC	T
Surrogate: Bromofluorobenzene			103 %	85-115		06/14/22	B2F1406	8260	RC	
Surrogate: Dibromofluoromethane			95.0 %	82.7-115		06/14/22	B2F1406	8260	RC	
Surrogate: Toluene-d8			103 %	85-115		06/14/22	B2F1406	8260	RC	



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

Client ID: CF-TMW-12

Lab ID: 2206061-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-64-1	2-Propanone (acetone)	22	20	ug/L	1	06/15/22	B2F1504	8260	RC	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
71-43-2	Benzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-25-2	Bromoform	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-83-9	Bromomethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-00-3	Chloroethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-66-3	Chloroform	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-87-3	Chloromethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	



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ENVIRONMENTAL LABORATORY

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

Client ID: CF-TMW-12

Lab ID: 2206061-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
110-54-3	Hexane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-37-7	Methylcyclopentane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
91-20-3	Naphthalene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
142-82-5	n-Heptane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-47-6	o-Xylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
100-42-5	Styrene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	06/15/22	B2F1504	8260	RC	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
127-18-4	Tetrachloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-88-3	Toluene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
Surrogate: Bromofluorobenzene			105 %	85-115		06/15/22	B2F1504	8260	RC	
Surrogate: Dibromofluoromethane			100 %	82.7-115		06/15/22	B2F1504	8260	RC	
Surrogate: Toluene-d8			105 %	85-115		06/15/22	B2F1504	8260	RC	



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P.O. Box 30270
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TEL: (517) 335-9800
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Client ID: CF-TMW-13

Lab ID: 2206061-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										See note Y11
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
526-73-8	1,2,3-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
540-84-1	2,2,4-Trimethylpentane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-64-1	2-Propanone (acetone)	ND	20	ug/L	1	06/15/22	B2F1504	8260	RC	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
107-13-1	Acrylonitrile	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
71-43-2	Benzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-97-5	Bromochloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-27-4	Bromodichloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-25-2	Bromoform	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-83-9	Bromomethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-15-0	Carbon disulfide	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
56-23-5	Carbon tetrachloride	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-90-7	Chlorobenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-00-3	Chloroethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-66-3	Chloroform	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-87-3	Chloromethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
10061-01-5	cis-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
110-82-7	Cyclohexane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	



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ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
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Client ID: CF-TMW-13

Lab ID: 2206061-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										See note Y11
124-48-1	Dibromochloromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
74-95-3	Dibromomethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
60-29-7	Diethyl ether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-20-3	Diisopropyl Ether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
100-41-4	Ethylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
637-92-3	Ethyltertiarybutylether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
67-72-1	Hexachloroethane	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
110-54-3	Hexane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
98-82-8	Isopropylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
1330-20-7	m & p - Xylene	ND	2.0	ug/L	1	06/15/22	B2F1504	8260	RC	
96-37-7	Methylcyclopentane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-09-2	Methylene chloride	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
1634-04-4	Methyltertiarybutylether	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
91-20-3	Naphthalene	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
104-51-8	n-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
142-82-5	n-Heptane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
103-65-1	n-Propylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
95-47-6	o-Xylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
135-98-8	sec-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
100-42-5	Styrene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
98-06-6	tert-Butylbenzene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-65-0	tertiary Butyl Alcohol	ND	50	ug/L	1	06/15/22	B2F1504	8260	RC	
994-05-8	tertiaryAmylmethylether	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
127-18-4	Tetrachloroethylene	18	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
109-99-9	Tetrahydrofuran	ND	5.0	ug/L	1	06/15/22	B2F1504	8260	RC	
108-88-3	Toluene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
10061-02-6	trans-1,3-Dichloropropylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
79-01-6	Trichloroethylene	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
75-01-4	Vinyl chloride	ND	1.0	ug/L	1	06/15/22	B2F1504	8260	RC	
Surrogate: Bromofluorobenzene			105 %	85-115		06/15/22	B2F1504	8260	RC	
Surrogate: Dibromofluoromethane			99.1 %	82.7-115		06/15/22	B2F1504	8260	RC	
Surrogate: Toluene-d8			102 %	85-115		06/15/22	B2F1504	8260	RC	



Analysis Request Sheet

Lab Work Order Number

Project Name

Matrix

2206061

Calumet Dry Cleaner

WATER

Location ID

Program

CC Email 1

Project TAT Days

Sample Collector

31000530

Activity

laioleb@michigan.gov

Project Due Date

Brandon LaJoie

Dept-Division-District

Funding Source

pincumbel@michigan.gov

Accept Analysis
hold time codes

Sample Collector Phone

UPRRD-Calumet

Location Code

jblinkley@manknsmithgroup.com

Contract Firm

5175820143

State Project Manager

SUD Location Code

Overflow Lab Choice 1

Contract Firm Primary Contact

Contract Firm

Amy Keranen

Overflow Lab Choice 2

State Project Manager Email

6H66

keranena@michigan.gov

State Project Manager Phone

9063370389

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	01 CF-TMW-06	6/7/22	09:45	3	
2	02 CF-TMW-10	6/7/22	09:30	3	
3	03 CF-TMW-11	6/7/22	09:05	3	
4	04 CF-TMW-11 DUP	6/7/22	09:05	3	
5	05 CF-TMW-12	6/7/22	09:40	3	
6	06 CF-TMW-13	6/7/22	09:15	3	
7					
8					
9					
10					

ORGANIC CHEMISTRY		MAD - DISSOLVED METALS		MA - TOTAL METALS		GENERAL CHEMISTRY	
VOA - Volatile Organic Acidic	1 2 3 4 5 6 7 8 9 10	Diss - Silver - Ag	1 2 3 4 5 6 7 8 9 10	Silver - Ag	1 2 3 4 5 6 7 8 9 10	GB Total Cyanide - CN	1 2 3 4 5 6 7 8 9 10
Volatiles - Full List	1 2 3 4 5 6 7 8 9 10	Diss - Aluminum - Al	1 2 3 4 5 6 7 8 9 10	Aluminum - Al	1 2 3 4 5 6 7 8 9 10	GCN Available Cyanide - CN	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE/TMB only	1 2 3 4 5 6 7 8 9 10	Diss - Arsenic - As	1 2 3 4 5 6 7 8 9 10	Arsenic - As	1 2 3 4 5 6 7 8 9 10	(Amenable / Weak Acid Dissociable)	
Chlorinated only	1 2 3 4 5 6 7 8 9 10	Diss - Boron - B	1 2 3 4 5 6 7 8 9 10	Boron - B	1 2 3 4 5 6 7 8 9 10	CA Chlorophyll	1 2 3 4 5 6 7 8 9 10
GRO	1 2 3 4 5 6 7 8 9 10	Diss - Barium - Ba	1 2 3 4 5 6 7 8 9 10	Barium - Ba	1 2 3 4 5 6 7 8 9 10	GN Ortho Phosphate - OP	1 2 3 4 5 6 7 8 9 10
1,4 Dioxane	1 2 3 4 5 6 7 8 9 10	Diss - Beryllium - Be	1 2 3 4 5 6 7 8 9 10	Beryllium - Be	1 2 3 4 5 6 7 8 9 10	GN Diss Ortho Phosphate - *FF	1 2 3 4 5 6 7 8 9 10
METH - Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10	Diss - Cadmium - Cd	1 2 3 4 5 6 7 8 9 10	Cadmium - Cd	1 2 3 4 5 6 7 8 9 10	GN Nitrite - NO ₂	1 2 3 4 5 6 7 8 9 10
Methane, Ethane, Ethene	1 2 3 4 5 6 7 8 9 10	Diss - Cobalt - Co	1 2 3 4 5 6 7 8 9 10	Cobalt - Co	1 2 3 4 5 6 7 8 9 10	GN Nitrate - NO ₃ (Calc.)	1 2 3 4 5 6 7 8 9 10
ON - Pesticides, PCBs	1 2 3 4 5 6 7 8 9 10	Diss - Chromium - Cr	1 2 3 4 5 6 7 8 9 10	Chromium - Cr	1 2 3 4 5 6 7 8 9 10	GN Suspended Solids - SS	1 2 3 4 5 6 7 8 9 10
Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10	Diss - Copper - Cu	1 2 3 4 5 6 7 8 9 10	Copper - Cu	1 2 3 4 5 6 7 8 9 10	GN Dissolved Solids - TDS	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10	Diss - Iron - Fe	1 2 3 4 5 6 7 8 9 10	Iron - Fe	1 2 3 4 5 6 7 8 9 10	MN Diss Solids - TDS (Calc.)	1 2 3 4 5 6 7 8 9 10
PCBs only	1 2 3 4 5 6 7 8 9 10	Diss - Mercury - Hg	1 2 3 4 5 6 7 8 9 10	Mercury - Hg	1 2 3 4 5 6 7 8 9 10	GN Turbidity	1 2 3 4 5 6 7 8 9 10
Toxaphene	1 2 3 4 5 6 7 8 9 10	Diss - Lithium - Li	1 2 3 4 5 6 7 8 9 10	Lithium - Li	1 2 3 4 5 6 7 8 9 10	MN Total Alkalinity	1 2 3 4 5 6 7 8 9 10
Chlordane	1 2 3 4 5 6 7 8 9 10	Diss - Manganese - Mn	1 2 3 4 5 6 7 8 9 10	Manganese - Mn	1 2 3 4 5 6 7 8 9 10	MN Bicarb/Carb Alkalinity	1 2 3 4 5 6 7 8 9 10
BNA - Base Neutral Acids	1 2 3 4 5 6 7 8 9 10	Diss - Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10	Molybdenum - Mo	1 2 3 4 5 6 7 8 9 10	(Includes Total Alkalinity)	
BNAs	1 2 3 4 5 6 7 8 9 10	Diss - Nickel - Ni	1 2 3 4 5 6 7 8 9 10	Nickel - Ni	1 2 3 4 5 6 7 8 9 10	MN Chloride - Cl	1 2 3 4 5 6 7 8 9 10
Benzidines	1 2 3 4 5 6 7 8 9 10	Diss - Lead - Pb	1 2 3 4 5 6 7 8 9 10	Lead - Pb	1 2 3 4 5 6 7 8 9 10	MN Fluoride - F	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10	Diss - Antimony - Sb	1 2 3 4 5 6 7 8 9 10	Antimony - Sb	1 2 3 4 5 6 7 8 9 10	MN Sulfate - SO ₄	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10	Diss - Selenium - Se	1 2 3 4 5 6 7 8 9 10	Selenium - Se	1 2 3 4 5 6 7 8 9 10	MN Diss Chromium 6 - *FF	1 2 3 4 5 6 7 8 9 10
Acids only	1 2 3 4 5 6 7 8 9 10	Diss - Strontium - Sr	1 2 3 4 5 6 7 8 9 10	Strontium - Sr	1 2 3 4 5 6 7 8 9 10	MN Conductivity	1 2 3 4 5 6 7 8 9 10
Organic Specialty Requests	1 2 3 4 5 6 7 8 9 10	Diss - Titanium - Ti	1 2 3 4 5 6 7 8 9 10	Titanium - Ti	1 2 3 4 5 6 7 8 9 10	MN pH	1 2 3 4 5 6 7 8 9 10
Library search - Volatiles	1 2 3 4 5 6 7 8 9 10	Diss - Thallium - Tl	1 2 3 4 5 6 7 8 9 10	Thallium - Tl	1 2 3 4 5 6 7 8 9 10	GA Chem Oxyg Dem - COD	1 2 3 4 5 6 7 8 9 10
Library search - SemiVols	1 2 3 4 5 6 7 8 9 10	Diss - Uranium - U	1 2 3 4 5 6 7 8 9 10	Uranium - U	1 2 3 4 5 6 7 8 9 10	GA Diss Org Carbon - DOC *FF	1 2 3 4 5 6 7 8 9 10
Finger Print	1 2 3 4 5 6 7 8 9 10	Diss - Vanadium - V	1 2 3 4 5 6 7 8 9 10	Vanadium - V	1 2 3 4 5 6 7 8 9 10	GN Diss Org Carbon - DOC (LF)	1 2 3 4 5 6 7 8 9 10
DRO / ORO	1 2 3 4 5 6 7 8 9 10	Diss - Zinc - Zn	1 2 3 4 5 6 7 8 9 10	Zinc - Zn	1 2 3 4 5 6 7 8 9 10	(Lab - Filtered & Preserved)	
METALS CHEMISTRY PACKAGES	1 2 3 4 5 6 7 8 9 10	Diss - Calcium - Ca	1 2 3 4 5 6 7 8 9 10	Calcium - Ca	1 2 3 4 5 6 7 8 9 10	GA Total Org Carbon - TOC	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Total	1 2 3 4 5 6 7 8 9 10	Diss - Potassium - K	1 2 3 4 5 6 7 8 9 10	Potassium - K	1 2 3 4 5 6 7 8 9 10	GA Ammonia - NH ₃	1 2 3 4 5 6 7 8 9 10
OpMemo2 - Dissolved	1 2 3 4 5 6 7 8 9 10	Diss - Magnesium - Mg	1 2 3 4 5 6 7 8 9 10	Magnesium - Mg	1 2 3 4 5 6 7 8 9 10	GA Nitrate+Nitrite - NO ₃ +NO ₂	1 2 3 4 5 6 7 8 9 10
(Sb,As,Ba,Be,Cd,Cr,Cu,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)	1 2 3 4 5 6 7 8 9 10	Diss - Sodium - Na	1 2 3 4 5 6 7 8 9 10	Sodium - Na	1 2 3 4 5 6 7 8 9 10	GA Kjeldahl Nitrogen - KN	1 2 3 4 5 6 7 8 9 10
Michigan10 - Total	1 2 3 4 5 6 7 8 9 10	Diss - Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10	Hardness - Ca, Mg	1 2 3 4 5 6 7 8 9 10	GA Total Phosphorus - TP	1 2 3 4 5 6 7 8 9 10
Michigan10 - Dissolved	1 2 3 4 5 6 7 8 9 10	MD - Metals Dissolved	1 2 3 4 5 6 7 8 9 10	LHG - Low Level Mercury	1 2 3 4 5 6 7 8 9 10		
(As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	1 2 3 4 5 6 7 8 9 10	Lab Filtration	1 2 3 4 5 6 7 8 9 10	Mercury Low Level - Hg	1 2 3 4 5 6 7 8 9 10	* (FF) Field Filtered	

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name		
	& Org.		
	Signature:		
	Print Name		
	& Org.		
	Signature:		
	Print Name		