

29 June 2022

Work Order: 2206064

Price: \$1,375.00

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-SB-08-6' dup	2206064-01	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-08-8'	2206064-02	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-09-5'	2206064-03	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-09-8'	2206064-04	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-10-4.5'	2206064-05	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-10-6'	2206064-06	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-10-9.75'	2206064-07	Soil/Sediment	06/05/2022	06/09/2022	
CF-SB-11-5.5'	2206064-08	Soil/Sediment	06/06/2022	06/09/2022	
CF-SB-11-12'	2206064-09	Soil/Sediment	06/06/2022	06/09/2022	
CF-SB-12-8.5'	2206064-10	Soil/Sediment	06/06/2022	06/09/2022	
CF-SB-13-6.5'	2206064-11	Soil/Sediment	06/06/2022	06/09/2022	

Notes and Definitions

- 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.
- ND Indicates compound analyzed for but not detected at or above the reporting limit (RL).
- RL Reporting Limit
- NA Not Applicable
- dry Sample results reported on a dry weight basis

Case Narrative

Samples were received **6/9/2022 2:02:00PM** for client **EGLE-RRD-UP** as a part of project **CALUMET DRY CLEANER**.

Samples were logged and designated as Work Order # **2206064** on **6/9/2022 2:58:00PM**.

This Report was created **6/29/2022 1:43:21PM**.

Additional Notes/Narrative (if applicable):



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-08-6' dup

Lab ID: 2206064-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	240	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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Client ID: CF-SB-08-6' dup

Lab ID: 2206064-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	240	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3000	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	96	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	60	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			134 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			121 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			118 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-08-6' dup

Lab ID: 2206064-01

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Inorganics-General Chemistry										
TS	% Total Solids	92.8	0.1	%	1	06/14/22	B2F1319	2540 B	JC	



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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
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Client ID: CF-SB-08-8'

Lab ID: 2206064-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
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67-66-3	Chloroform	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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74-95-3	Dibromomethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	230	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	2900	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	280	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			130 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			113 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			116 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-08-8'

Lab ID: 2206064-02

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	94.2	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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-SB-09-5'

Lab ID: 2206064-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	240	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-09-5'

Lab ID: 2206064-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	240	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3000	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	590	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	61	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			131 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			115 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			116 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-09-5'

Lab ID: 2206064-03

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Inorganics-General Chemistry										
TS	% Total Solids	92.1	0.1	%	1	06/14/22	B2F1319	2540 B	JC	



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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-09-8'

Lab ID: 2206064-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1500	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-09-8'

Lab ID: 2206064-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	150	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	150	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3700	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	91	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	370	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	73	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			154 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			137 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			136 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-09-8'

Lab ID: 2206064-04

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	89.5	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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

Client ID: CF-SB-10-4.5'

Lab ID: 2206064-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-10-4.5'

Lab ID: 2206064-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			125 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			114 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			113 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-10-4.5'

Lab ID: 2206064-05

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	92.6	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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

Client ID: CF-SB-10-6'

Lab ID: 2206064-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	230	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-10-6'

Lab ID: 2206064-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	230	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	2900	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	290	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	58	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			128 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			116 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			113 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-10-6'

Lab ID: 2206064-06

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Inorganics-General Chemistry										
TS	% Total Solids	93.7	0.1	%	1	06/14/22	B2F1319	2540 B	JC	



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

Client ID: CF-SB-10-9.75'

Lab ID: 2206064-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-10-9.75'

Lab ID: 2206064-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	64	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			123 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			119 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			110 %	55.4-196		06/15/22	B2F1508	8260	SJR	



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-10-9.75'

Lab ID: 2206064-07

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	90.4	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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-SB-11-5.5'

Lab ID: 2206064-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-11-5.5'

Lab ID: 2206064-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	250	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	120	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3100	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	120	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	62	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			126 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			108 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			106 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-11-5.5'

Lab ID: 2206064-08

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	92.2	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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

Client ID: CF-SB-11-12'

Lab ID: 2206064-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	260	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-11-12'

Lab ID: 2206064-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	2300	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			127 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			111 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			113 %	55.4-196		06/15/22	B2F1508	8260	SJR	

Client ID: CF-SB-11-12'

Lab ID: 2206064-09

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Inorganics-General Chemistry										
TS	% Total Solids	89.2	0.1	%	1	06/14/22	B2F1319	2540 B	JC	



MICHIGAN DEPARTMENT OF
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MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-12-8.5'

Lab ID: 2206064-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1300	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	260	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-12-8.5'

Lab ID: 2206064-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	260	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	130	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3200	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	320	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	65	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			128 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			118 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			114 %	55.4-196		06/15/22	B2F1508	8260	SJR	



MICHIGAN DEPARTMENT OF
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ENVIRONMENTAL LABORATORY

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

Client ID: CF-SB-12-8.5'

Lab ID: 2206064-10

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	92.1	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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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-SB-13-6.5'

Lab ID: 2206064-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
630-20-6	1,1,1,2-Tetrachloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-55-6	1,1,1-Trichloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-34-5	1,1,2,2-Tetrachloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-00-5	1,1,2-Trichloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-34-3	1,1-Dichloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-35-4	1,1-Dichloroethylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
87-61-6	1,2,3-Trichlorobenzene	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-18-4	1,2,3-Trichloropropane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
526-73-8	1,2,3-Trimethylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-63-6	1,2,4-Trimethylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-12-8	1,2-Dibromo-3-chloropropane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-93-4	1,2-Dibromoethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-50-1	1,2-Dichlorobenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-06-2	1,2-Dichloroethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-87-5	1,2-Dichloropropane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-67-8	1,3,5-Trimethylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
541-73-1	1,3-Dichlorobenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
106-46-7	1,4-Dichlorobenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
540-84-1	2,2,4-Trimethylpentane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
78-93-3	2-Butanone (MEK)	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-64-1	2-Propanone (acetone)	ND	1600	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
107-13-1	Acrylonitrile	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
71-43-2	Benzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-97-5	Bromochloromethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-27-4	Bromodichloromethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-25-2	Bromoform	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
74-83-9	Bromomethane	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-15-0	Carbon disulfide	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
56-23-5	Carbon tetrachloride	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-90-7	Chlorobenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-00-3	Chloroethane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-66-3	Chloroform	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-87-3	Chloromethane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-59-2	cis-1,2-Dichloroethylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-01-5	cis-1,3-Dichloropropylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-82-7	Cyclohexane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	



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

Client ID: CF-SB-13-6.5'

Lab ID: 2206064-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
Organics-Volatiles										
124-48-1	Dibromochloromethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
74-95-3	Dibromomethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-71-8	Dichlorodifluoromethane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	A05
60-29-7	Diethyl ether	ND	310	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-20-3	Diisopropyl Ether	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-41-4	Ethylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
637-92-3	Ethyltertiarybutylether	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
67-72-1	Hexachloroethane	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
110-54-3	Hexane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-82-8	Isopropylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1330-20-7	m & p - Xylene	ND	160	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
96-37-7	Methylcyclopentane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-09-2	Methylene chloride	ND	160	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
1634-04-4	Methyltertiarybutylether	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
91-20-3	Naphthalene	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
104-51-8	n-Butylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
142-82-5	n-Heptane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
103-65-1	n-Propylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
95-47-6	o-Xylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
135-98-8	sec-Butylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
100-42-5	Styrene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
98-06-6	tert-Butylbenzene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-65-0	tertiary Butyl Alcohol	ND	3900	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
994-05-8	tertiaryAmylmethylether	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
127-18-4	Tetrachloroethylene	1100	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
109-99-9	Tetrahydrofuran	ND	390	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
108-88-3	Toluene	78	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
156-60-5	trans-1,2-Dichloroethylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
10061-02-6	trans-1,3-Dichloropropylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
79-01-6	Trichloroethylene	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-69-4	Trichlorofluoromethane	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
75-01-4	Vinyl chloride	ND	78	ug/kg dry	50	06/15/22	B2F1508	8260	SJR	
Surrogate: Bromofluorobenzene			127 %	40.3-194		06/15/22	B2F1508	8260	SJR	
Surrogate: Dibromofluoromethane			120 %	52.1-217		06/15/22	B2F1508	8260	SJR	
Surrogate: Toluene-d8			116 %	55.4-196		06/15/22	B2F1508	8260	SJR	



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Client ID: CF-SB-13-6.5'

Lab ID: 2206064-11

CAS #	Analyte	Result	RL	Units	Dilution	Analyzed Date	QC Batch	Method	Analyst	Qualifier
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Inorganics-General Chemistry

TS	% Total Solids	89.5	0.1	%	1	06/14/22	B2F1319	2540 B	JC	
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Analysis Request Sheet

Lab Work Order Number *22062022* Project Name

Calumet Dry Cleaner

Matrix

SOIL/SEDIMENT

Location ID
31000530

Dept-Division-District
UPRRD- Calumet

State Project Manager
Amy Keranen

State Project Manager Email
keranena@michigan.gov

State Project Manager Phone
906-337-0389

Program

Activity

Funding Source

Location Code
6H66

SUD Location Code

CC Email 1
laloieb@michigan.gov

CC Email 2
pincumbej@michigan.gov

CC Email 3
jbinkley@manknsmithgroup.com

Overflow Lab Choice 1

Overflow Lab Choice 2

Project TAT Days
21

Project Due Date
6/29/2022

Accept Analysis hold time codes
no

Sample Collector
Brandon LaJoie

Sample Collector Phone
5175820143

Contract Firm

Contract Firm Primary Contact

Primary Contact Phone

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	01 CF-SB- 08-6' dup	06/5/22	1100	1	
2	02 CF-SB- 08-8'	06/5/22	1105	1	
3	03 CF-SB- 09-5'	06/5/22	1115	1	
4	04 CF-SB- 09-8'	06/5/22	1140	1	
5	05 CF-SB- 10-4.5'	06/5/22	1405	1	
6	06 CF-SB- 10-6'	06/5/22	1415	1	
7	07 CF-SB- 10-9.75'	06/5/22	1430	1	
8	08 CF-SB- 11-5.5'	06/6/22	10:30	1	
9	09 CF-SB- 12-11-12'	06/6/22	10:15	1	
10	10 CF-SB- 12-8.5'	06/6/22	12:15	1	

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic Volatiles - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10 OS - Pesticides, PCBs Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10 Pesticides only 1 2 3 4 5 6 7 8 9 10 PCBs only 1 2 3 4 5 6 7 8 9 10 Toxaphene 1 2 3 4 5 6 7 8 9 10 BNA - Base Neutral Acids BNAs 1 2 3 4 5 6 7 8 9 10 PNAs only 1 2 3 4 5 6 7 8 9 10 BNs only 1 2 3 4 5 6 7 8 9 10 Organic Specialty Requests Library search - Volatiles 1 2 3 4 5 6 7 8 9 10 Library search - SemiVols 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO / ORO 1 2 3 4 5 6 7 8 9 10	OpMemo2 - Total 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Ti,V,Zn) Michigan10 - Total 1 2 3 4 5 6 7 8 9 10 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	Silver - Ag 1 2 3 4 5 6 7 8 9 10 Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Arsenic - As 1 2 3 4 5 6 7 8 9 10 Barium - Ba 1 2 3 4 5 6 7 8 9 10 Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Copper - Cu 1 2 3 4 5 6 7 8 9 10 Iron - Fe 1 2 3 4 5 6 7 8 9 10 Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Lithium - Li 1 2 3 4 5 6 7 8 9 10 Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Lead - Pb 1 2 3 4 5 6 7 8 9 10 Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Selenium - Se 1 2 3 4 5 6 7 8 9 10 Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Uranium - U 1 2 3 4 5 6 7 8 9 10 Vanadium - V 1 2 3 4 5 6 7 8 9 10 Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Potassium - K 1 2 3 4 5 6 7 8 9 10 Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Sodium - Na 1 2 3 4 5 6 7 8 9 10	GS - General Chemistry Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10

Relinquished by	Received By	Date / Time
Print Name & Org.	<i>Melissa Smith</i>	6/9/22 1402
Signature:		
Print Name & Org.		
Signature:		
Print Name		



Analysis Request Sheet

Lab Work Order Number **2206660** Project Name

Calumet Dry Cleaner

Matrix

SOIL/SEDIMENT

Location ID
31000530

Dept-Division-District
UPRRD- Calumet

State Project Manager
Amy Keranen

State Project Manager Email
keranena@michigan.gov

State Project Manager Phone
906-337-0389

Program

Activity

Funding Source

Location Code
6H66

SUD Location Code

CC Email 1
lajoie@michigan.gov

CC Email 2
pincumbei@michigan.gov

CC Email 3
jbinkley@manknsmithgroup.com

Overflow Lab Choice 1

Overflow Lab Choice 2

Project TAT Days
21

Project Due Date
6/29/2022

Accept Analysis hold time codes
no

Sample Collector
Brandon Lajoie

Sample Collector Phone
5175820143

Contract Firm

Contract Firm Primary Contact

Primary Contact Phone

Lab Use Only	Field Sample Identification	Collection Date	Collection Time	Bottle Count	Comments
1	CF-SB- 13-6.5'	06/6/22	15:40	1	
2	CF-SB-	06/ /22			
3	CF-SB-	06/ /22			
4	CF-SB-	06/ /22			
5	CF-SB-	06/ /22			
6	CF-SB-	06/ /22			
7	CF-SB-	06/ /22			
8	CF-SB-	06/ /22			
9	CF-SB-	06/ /22			
10	CF-SB-	06/ /22			

ORGANIC CHEMISTRY	METALS CHEMISTRY PACKAGES	MS - TOTAL METALS	GENERAL CHEMISTRY
VOA - Volatile Organic Acidic Volatiles - Full List 1 2 3 4 5 6 7 8 9 10 BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10 Chlorinated only 1 2 3 4 5 6 7 8 9 10 GRO 1 2 3 4 5 6 7 8 9 10 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10 OS - Pesticides, PCBs Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10 Pesticides only 1 2 3 4 5 6 7 8 9 10 PCBs only 1 2 3 4 5 6 7 8 9 10 Toxaphene 1 2 3 4 5 6 7 8 9 10 BNA - Base Neutral Acids BNAs 1 2 3 4 5 6 7 8 9 10 PNAs only 1 2 3 4 5 6 7 8 9 10 BNs only 1 2 3 4 5 6 7 8 9 10 Organic Specialty Requests Library search - Volatiles 1 2 3 4 5 6 7 8 9 10 Library search - SemiVols 1 2 3 4 5 6 7 8 9 10 Finger Print 1 2 3 4 5 6 7 8 9 10 DRO / ORO 1 2 3 4 5 6 7 8 9 10	OpMemo2 - Total 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Be,Cd,Cr,Cu,Co,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn) Michigan10 - Total 1 2 3 4 5 6 7 8 9 10 (As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn)	Silver - Ag 1 2 3 4 5 6 7 8 9 10 Aluminum - Al 1 2 3 4 5 6 7 8 9 10 Arsenic - As 1 2 3 4 5 6 7 8 9 10 Barium - Ba 1 2 3 4 5 6 7 8 9 10 Beryllium - Be 1 2 3 4 5 6 7 8 9 10 Cadmium - Cd 1 2 3 4 5 6 7 8 9 10 Cobalt - Co 1 2 3 4 5 6 7 8 9 10 Chromium - Cr 1 2 3 4 5 6 7 8 9 10 Copper - Cu 1 2 3 4 5 6 7 8 9 10 Iron - Fe 1 2 3 4 5 6 7 8 9 10 Mercury - Hg 1 2 3 4 5 6 7 8 9 10 Lithium - Li 1 2 3 4 5 6 7 8 9 10 Manganese - Mn 1 2 3 4 5 6 7 8 9 10 Molybdenum - Mo 1 2 3 4 5 6 7 8 9 10 Nickel - Ni 1 2 3 4 5 6 7 8 9 10 Lead - Pb 1 2 3 4 5 6 7 8 9 10 Antimony - Sb 1 2 3 4 5 6 7 8 9 10 Selenium - Se 1 2 3 4 5 6 7 8 9 10 Strontium - Sr 1 2 3 4 5 6 7 8 9 10 Titanium - Ti 1 2 3 4 5 6 7 8 9 10 Thallium - Tl 1 2 3 4 5 6 7 8 9 10 Uranium - U 1 2 3 4 5 6 7 8 9 10 Vanadium - V 1 2 3 4 5 6 7 8 9 10 Zinc - Zn 1 2 3 4 5 6 7 8 9 10 Calcium - Ca 1 2 3 4 5 6 7 8 9 10 Potassium - K 1 2 3 4 5 6 7 8 9 10 Magnesium - Mg 1 2 3 4 5 6 7 8 9 10 Sodium - Na 1 2 3 4 5 6 7 8 9 10	GS - General Chemistry Total Cyanide - CN 1 2 3 4 5 6 7 8 9 10 Available Cyanide - CN 1 2 3 4 5 6 7 8 9 10

Chain of Custody	Relinquished by	Received By	Date / Time
	Print Name	<i>Melissa Smith</i>	6/9/22 1102
	& Org.		
	Signature:	<i>[Signature]</i>	
Print Name			
& Org.			
Signature:			
Print Name			