



Final Report

Minnesota Department of Health
 Public Health Laboratory
 Environmental Laboratory Section
 601 Robert St. N., P.O. Box 64899
 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1270053 Program Code: HC Type: B
 System Name: Spring Park
 City: Spring Park

Date Received: 03/11/24 14:11 Collector Name: Brian A. Noma
 Rep. Temp. (°C): 8.6 Collector ID: 8091

MDH Sample Number: 24C0513-01

Location ID: E01	Collect Date: 03/11/24	Field Residual Chlorine Result: None
Sampling Point: Treatment Plant #1	Collect Time: 07:50	Field Fluoride Result: None
Field Number: BN4555	Matrix: Drinking Water	Field pH Result: None
		Field PO ₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1,1-Trichloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1,2-Trichloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1-Dichloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1-Dichloroethene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,1-Dichloropropene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2,3-Trichlorobenzene	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2,3-Trichloropropane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2,4-Trichlorobenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2,4-Trimethylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	T5
1,2-Dichlorobenzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2-Dichloroethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,2-Dichloropropane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,3,5-Trimethylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,3-Dichlorobenzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,3-Dichloropropane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
1,4-Dichlorobenzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
2,2-Dichloropropane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
2-Chlorotoluene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
4-Chlorotoluene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Acetone	<	20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Allyl chloride	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Benzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Bromobenzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	

FINAL REPORT

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Stefan Saravia, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

MDH Sample Number: 24C0513-01

Location ID: E01

Collect Date: 03/11/24

Field Residual Chlorine Result: None

Sampling Point: Treatment Plant #1

Collect Time: 07:50

Field Fluoride Result: None

Field Number: BN4555

Matrix: Drinking Water

Field pH Result: None

Field PO₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Bromochloromethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Bromodichloromethane	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Bromoform	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Bromomethane	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Carbon tetrachloride	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Chlorobenzene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Chlorodibromomethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Chloroethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Chloroform	<	0.10	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Chloromethane	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
cis-1,2-Dichloroethene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
cis-1,3-Dichloropropene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Dibromomethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Dichlorodifluoromethane	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Dichlorofluoromethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Ethyl ether	<	2.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Ethylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Hexachlorobutadiene	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Isopropylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Methyl ethyl ketone (MEK)	<	10	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Methylene chloride	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Naphthalene	<	1.0	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
n-Butylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
n-Propylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
o-Xylene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
p and m-Xylene	<	0.30	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
p-Isopropyltoluene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
sec-Butylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Styrene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
tert-Butylbenzene	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Tetrachloroethene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Tetrahydrofuran (THF)	<	10	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Toluene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
trans-1,2-Dichloroethene	<	0.10	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
trans-1,3-Dichloropropene	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Trichloroethene (TCE)	<	0.10	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	

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Stefan Saravia, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

MDH Sample Number: 24C0513-01

Location ID: E01

Sampling Point: Treatment Plant #1

Field Number: BN4555

Collect Date: 03/11/24

Collect Time: 07:50

Matrix: Drinking Water

Field Residual Chlorine Result: None

Field Fluoride Result: None

Field pH Result: None

Field PO₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

VOCs by GCMS - Continued

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Trichlorofluoromethane	<	0.50	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Vinyl chloride	<	0.20	ug/L	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	%	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	
Surrogate: Methyl tertiary butyl ether-d3	99	70-130	%	B4C0671	03/12/24 16:20	03/12/24 16:20	AEZ	EPA 524.3	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

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Batch B4C0671 - EPA 524 Prep

Blank (B4C0671-BLK1)

Prepared: 03/12/24 13:38 Analyzed: 03/12/24 13:38

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L							AEZ	
1,1,1-Trichloroethane	<	0.20	ug/L							AEZ	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L							AEZ	
1,1,2-Trichloroethane	<	0.20	ug/L							AEZ	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L							AEZ	
1,1-Dichloroethane	<	0.20	ug/L							AEZ	
1,1-Dichloroethene	<	0.50	ug/L							AEZ	
1,1-Dichloropropene	<	0.20	ug/L							AEZ	
1,2,3-Trichlorobenzene	<	1.0	ug/L							AEZ	
1,2,3-Trichloropropane	<	0.50	ug/L							AEZ	
1,2,4-Trichlorobenzene	<	0.50	ug/L							AEZ	
1,2,4-Trimethylbenzene	<	0.50	ug/L							AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L							AEZ	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L							AEZ	T5
1,2-Dichlorobenzene	<	0.20	ug/L							AEZ	
1,2-Dichloroethane	<	0.20	ug/L							AEZ	
1,2-Dichloropropane	<	0.20	ug/L							AEZ	
1,3,5-Trimethylbenzene	<	0.50	ug/L							AEZ	
1,3-Dichlorobenzene	<	0.20	ug/L							AEZ	
1,3-Dichloropropane	<	0.20	ug/L							AEZ	
1,4-Dichlorobenzene	<	0.20	ug/L							AEZ	
2,2-Dichloropropane	<	0.50	ug/L							AEZ	
2-Chlorotoluene	<	0.50	ug/L							AEZ	
4-Chlorotoluene	<	0.50	ug/L							AEZ	
Acetone	<	20	ug/L							AEZ	
Allyl chloride	<	0.50	ug/L							AEZ	
Benzene	<	0.20	ug/L							AEZ	
Bromobenzene	<	0.20	ug/L							AEZ	
Bromochloromethane	<	0.50	ug/L							AEZ	
Bromodichloromethane	<	0.20	ug/L							AEZ	
Bromoform	<	0.50	ug/L							AEZ	
Bromomethane	<	1.0	ug/L							AEZ	
Carbon tetrachloride	<	0.20	ug/L							AEZ	
Chlorobenzene	<	0.20	ug/L							AEZ	
Chlorodibromomethane	<	0.50	ug/L							AEZ	
Chloroethane	<	0.50	ug/L							AEZ	
Chloroform	<	0.10	ug/L							AEZ	
Chloromethane	<	1.0	ug/L							AEZ	
cis-1,2-Dichloroethene	<	0.20	ug/L							AEZ	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

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Batch B4C0671 - EPA 524 Prep

Blank (B4C0671-BLK1)

Prepared: 03/12/24 13:38 Analyzed: 03/12/24 13:38

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
cis-1,3-Dichloropropene	<	0.20	ug/L							AEZ	
Dibromomethane	<	0.50	ug/L							AEZ	
Dichlorodifluoromethane	<	1.0	ug/L							AEZ	
Dichlorofluoromethane	<	0.50	ug/L							AEZ	
Ethyl ether	<	2.0	ug/L							AEZ	
Ethylbenzene	<	0.50	ug/L							AEZ	
Hexachlorobutadiene	<	1.0	ug/L							AEZ	
Isopropylbenzene	<	0.50	ug/L							AEZ	
Methyl ethyl ketone (MEK)	<	10	ug/L							AEZ	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L							AEZ	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L							AEZ	
Methylene chloride	<	0.50	ug/L							AEZ	
Naphthalene	<	1.0	ug/L							AEZ	
n-Butylbenzene	<	0.50	ug/L							AEZ	
n-Propylbenzene	<	0.50	ug/L							AEZ	
o-Xylene	<	0.20	ug/L							AEZ	
p and m-Xylene	<	0.30	ug/L							AEZ	
p-Isopropyltoluene	<	0.50	ug/L							AEZ	
sec-Butylbenzene	<	0.50	ug/L							AEZ	
Styrene	<	0.50	ug/L							AEZ	
tert-Butylbenzene	<	0.50	ug/L							AEZ	
Tetrachloroethene	<	0.20	ug/L							AEZ	
Tetrahydrofuran (THF)	<	10	ug/L							AEZ	
Toluene	<	0.20	ug/L							AEZ	
trans-1,2-Dichloroethene	<	0.10	ug/L							AEZ	
trans-1,3-Dichloropropene	<	0.20	ug/L							AEZ	
Trichloroethene (TCE)	<	0.10	ug/L							AEZ	
Trichlorofluoromethane	<	0.50	ug/L							AEZ	
Vinyl chloride	<	0.20	ug/L							AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	98	70-130	%	10						AEZ	

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Stefan Saravia, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

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Batch B4C0671 - EPA 524 Prep

LCS (B4C0671-BS1)

Prepared: 03/12/24 19:56 Analyzed: 03/12/24 19:56

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	3.6	0.20	ug/L	4		89	70-130			AEZ	
1,1,1-Trichloroethane	3.9	0.20	ug/L	4		97	70-130			AEZ	
1,1,1,2-Tetrachloroethane	3.5	0.20	ug/L	4		87	70-130			AEZ	
1,1,2-Trichloroethane	3.6	0.20	ug/L	4		91	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	4.0	0.20	ug/L	4		101	70-130			AEZ	
1,1-Dichloroethane	3.8	0.20	ug/L	4		96	70-130			AEZ	
1,1-Dichloroethene	3.8	0.50	ug/L	4		95	70-130			AEZ	
1,1-Dichloropropene	3.8	0.20	ug/L	4		95	70-130			AEZ	
1,2,3-Trichlorobenzene	3.6	1.0	ug/L	4		91	70-130			AEZ	
1,2,3-Trichloropropane	3.5	0.50	ug/L	4		87	70-130			AEZ	
1,2,4-Trichlorobenzene	3.6	0.50	ug/L	4		90	70-130			AEZ	
1,2,4-Trimethylbenzene	3.7	0.50	ug/L	4		92	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	3.3	2.0	ug/L	4		82	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	3.6	0.50	ug/L	4		91	70-130			AEZ	T5
1,2-Dichlorobenzene	3.7	0.20	ug/L	4		92	70-130			AEZ	
1,2-Dichloroethane	3.7	0.20	ug/L	4		92	70-130			AEZ	
1,2-Dichloropropane	3.9	0.20	ug/L	4		98	70-130			AEZ	
1,3,5-Trimethylbenzene	3.6	0.50	ug/L	4		91	70-130			AEZ	
1,3-Dichlorobenzene	3.7	0.20	ug/L	4		93	70-130			AEZ	
1,3-Dichloropropane	3.6	0.20	ug/L	4		91	70-130			AEZ	
1,4-Dichlorobenzene	3.7	0.20	ug/L	4		92	70-130			AEZ	
2,2-Dichloropropane	4.5	0.50	ug/L	4		112	70-130			AEZ	
2-Chlorotoluene	3.6	0.50	ug/L	4		91	70-130			AEZ	
4-Chlorotoluene	3.7	0.50	ug/L	4		92	70-130			AEZ	
Acetone	36	20	ug/L	40		89	70-130			AEZ	
Allyl chloride	4.0	0.50	ug/L	4		100	70-130			AEZ	
Benzene	3.8	0.20	ug/L	4		94	70-130			AEZ	
Bromobenzene	3.6	0.20	ug/L	4		90	70-130			AEZ	
Bromochloromethane	3.9	0.50	ug/L	4		98	70-130			AEZ	
Bromodichloromethane	3.7	0.20	ug/L	4		92	70-130			AEZ	
Bromoform	3.4	0.50	ug/L	4		85	70-130			AEZ	
Bromomethane	3.8	1.0	ug/L	4		95	70-130			AEZ	
Carbon tetrachloride	3.6	0.20	ug/L	4		91	70-130			AEZ	
Chlorobenzene	3.7	0.20	ug/L	4		92	70-130			AEZ	
Chlorodibromomethane	3.2	0.50	ug/L	4		81	70-130			AEZ	
Chloroethane	3.6	0.50	ug/L	4		89	70-130			AEZ	
Chloroform	3.8	0.10	ug/L	4		94	70-130			AEZ	
Chloromethane	3.8	1.0	ug/L	4		95	70-130			AEZ	
cis-1,2-Dichloroethene	3.7	0.20	ug/L	4		94	70-130			AEZ	
cis-1,3-Dichloropropene	3.7	0.20	ug/L	4		92	70-130			AEZ	

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Stefan Saravia, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

Results were produced by Minnesota Department of Health, except where noted.

Batch B4C0671 - EPA 524 Prep

LCS (B4C0671-BS1)

Prepared: 03/12/24 19:56 Analyzed: 03/12/24 19:56

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	3.5	0.50	ug/L	4		88	70-130			AEZ	
Dichlorodifluoromethane	4.3	1.0	ug/L	4		107	70-130			AEZ	
Dichlorofluoromethane	3.7	0.50	ug/L	4		93	70-130			AEZ	
Ethyl ether	3.8	2.0	ug/L	4		94	70-130			AEZ	
Ethylbenzene	3.8	0.50	ug/L	4		94	70-130			AEZ	
Hexachlorobutadiene	3.8	1.0	ug/L	4		96	70-130			AEZ	
Isopropylbenzene	3.7	0.50	ug/L	4		93	70-130			AEZ	
Methyl ethyl ketone (MEK)	18	10	ug/L	20		89	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	18	5.0	ug/L	20		90	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	3.6	2.0	ug/L	4		91	70-130			AEZ	
Methylene chloride	3.8	0.50	ug/L	4		96	70-130			AEZ	
Naphthalene	3.4	1.0	ug/L	4		86	70-130			AEZ	
n-Butylbenzene	4.0	0.50	ug/L	4		101	70-130			AEZ	
n-Propylbenzene	3.7	0.50	ug/L	4		93	70-130			AEZ	
o-Xylene	3.6	0.20	ug/L	4		89	70-130			AEZ	
p and m-Xylene	3.6	0.30	ug/L	4		89	70-130			AEZ	
p-Isopropyltoluene	3.8	0.50	ug/L	4		94	70-130			AEZ	
sec-Butylbenzene	3.8	0.50	ug/L	4		96	70-130			AEZ	
Styrene	3.5	0.50	ug/L	4		86	70-130			AEZ	
tert-Butylbenzene	3.7	0.50	ug/L	4		92	70-130			AEZ	
Tetrachloroethene	3.7	0.20	ug/L	4		92	70-130			AEZ	
Tetrahydrofuran (THF)	35	10	ug/L	40		88	70-130			AEZ	
Toluene	3.7	0.20	ug/L	4		92	70-130			AEZ	
trans-1,2-Dichloroethene	3.9	0.10	ug/L	4		98	70-130			AEZ	
trans-1,3-Dichloropropene	3.7	0.20	ug/L	4		93	70-130			AEZ	
Trichloroethene (TCE)	4.0	0.10	ug/L	4		101	70-130			AEZ	
Trichlorofluoromethane	3.9	0.50	ug/L	4		98	70-130			AEZ	
Vinyl chloride	4.1	0.20	ug/L	4		102	70-130			AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	99	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	97	70-130	%	10						AEZ	

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Public Health Laboratory, Minnesota Department of Health

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Batch B4C0671 - EPA 524 Prep

Duplicate (B4C0671-DUP1)

Source: 24C0514-07

Prepared: 03/12/24 19:29 Analyzed: 03/12/24 19:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1,1-Trichloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1,2-Trichloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1-Dichloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,1-Dichloroethene	<	0.50	ug/L	<	<				30	AEZ	
1,1-Dichloropropene	<	0.20	ug/L	<	<				30	AEZ	
1,2,3-Trichlorobenzene	<	1.0	ug/L	<	<				30	AEZ	
1,2,3-Trichloropropane	<	0.50	ug/L	<	<				30	AEZ	
1,2,4-Trichlorobenzene	<	0.50	ug/L	<	<				30	AEZ	
1,2,4-Trimethylbenzene	<	0.50	ug/L	<	<				30	AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	<	<				30	AEZ	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L	<	<				30	AEZ	T5
1,2-Dichlorobenzene	<	0.20	ug/L	<	<				30	AEZ	
1,2-Dichloroethane	<	0.20	ug/L	<	<				30	AEZ	
1,2-Dichloropropane	<	0.20	ug/L	<	<				30	AEZ	
1,3,5-Trimethylbenzene	<	0.50	ug/L	<	<				30	AEZ	
1,3-Dichlorobenzene	<	0.20	ug/L	<	<				30	AEZ	
1,3-Dichloropropane	<	0.20	ug/L	<	<				30	AEZ	
1,4-Dichlorobenzene	<	0.20	ug/L	<	<				30	AEZ	
2,2-Dichloropropane	<	0.50	ug/L	<	<				30	AEZ	
2-Chlorotoluene	<	0.50	ug/L	<	<				30	AEZ	
4-Chlorotoluene	<	0.50	ug/L	<	<				30	AEZ	
Acetone	<	20	ug/L	<	<				30	AEZ	
Allyl chloride	<	0.50	ug/L	<	<				30	AEZ	
Benzene	<	0.20	ug/L	<	<				30	AEZ	
Bromobenzene	<	0.20	ug/L	<	<				30	AEZ	
Bromochloromethane	<	0.50	ug/L	<	<				30	AEZ	
Bromodichloromethane	<	0.20	ug/L	<	<				30	AEZ	
Bromoform	<	0.50	ug/L	<	<				30	AEZ	
Bromomethane	<	1.0	ug/L	<	<				30	AEZ	
Carbon tetrachloride	<	0.20	ug/L	<	<				30	AEZ	
Chlorobenzene	<	0.20	ug/L	<	<				30	AEZ	
Chlorodibromomethane	<	0.50	ug/L	<	<				30	AEZ	
Chloroethane	<	0.50	ug/L	<	<				30	AEZ	
Chloroform	<	0.10	ug/L	<	<				30	AEZ	
Chloromethane	<	1.0	ug/L	<	<				30	AEZ	
cis-1,2-Dichloroethene	<	0.20	ug/L	<	<				30	AEZ	
cis-1,3-Dichloropropene	<	0.20	ug/L	<	<				30	AEZ	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

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Batch B4C0671 - EPA 524 Prep

Analyte	Duplicate (B4C0671-DUP1)		Source: 24C0514-07		Prepared: 03/12/24 19:29		Analyzed: 03/12/24 19:29		RPD	RPD Limit	Init.	Qualifiers
	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits					
Dibromomethane	<	0.50	ug/L	<	<				30		AEZ	
Dichlorodifluoromethane	<	1.0	ug/L	<	<				30		AEZ	
Dichlorofluoromethane	<	0.50	ug/L	<	<				30		AEZ	
Ethyl ether	<	2.0	ug/L	<	<				30		AEZ	
Ethylbenzene	<	0.50	ug/L	<	<				30		AEZ	
Hexachlorobutadiene	<	1.0	ug/L	<	<				30		AEZ	
Isopropylbenzene	<	0.50	ug/L	<	<				30		AEZ	
Methyl ethyl ketone (MEK)	<	10	ug/L	<	<				30		AEZ	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	<	<				30		AEZ	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	<	<				30		AEZ	
Methylene chloride	<	0.50	ug/L	<	<				30		AEZ	
Naphthalene	<	1.0	ug/L	<	<				30		AEZ	
n-Butylbenzene	<	0.50	ug/L	<	<				30		AEZ	
n-Propylbenzene	<	0.50	ug/L	<	<				30		AEZ	
o-Xylene	<	0.20	ug/L	<	<				30		AEZ	
p and m-Xylene	<	0.30	ug/L	<	<				30		AEZ	
p-Isopropyltoluene	<	0.50	ug/L	<	<				30		AEZ	
sec-Butylbenzene	<	0.50	ug/L	<	<				30		AEZ	
Styrene	<	0.50	ug/L	<	<				30		AEZ	
tert-Butylbenzene	<	0.50	ug/L	<	<				30		AEZ	
Tetrachloroethene	<	0.20	ug/L	<	<				30		AEZ	
Tetrahydrofuran (THF)	<	10	ug/L	<	<				30		AEZ	
Toluene	<	0.20	ug/L	<	<				30		AEZ	
trans-1,2-Dichloroethene	<	0.10	ug/L	<	<				30		AEZ	
trans-1,3-Dichloropropene	<	0.20	ug/L	<	<				30		AEZ	
Trichloroethene (TCE)	2.3	0.10	ug/L		2.5			6	30		AEZ	
Trichlorofluoromethane	<	0.50	ug/L	<	<				30		AEZ	
Vinyl chloride	<	0.20	ug/L	<	<				30		AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	%	10							AEZ	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	10							AEZ	
Surrogate: Methyl tertiary butyl ether-d3	100	70-130	%	10							AEZ	

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Public Health Laboratory, Minnesota Department of Health

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Batch B4C0671 - EPA 524 Prep

Matrix Spike (B4C0671-MS1)

Source: 24C0399-02

Prepared: 03/12/24 14:05 Analyzed: 03/12/24 14:05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	6.8	0.20	ug/L	6	<	114	70-130			AEZ	
1,1,1-Trichloroethane	7.8	0.20	ug/L	6	<	129	70-130			AEZ	
1,1,1,2-Tetrachloroethane	6.0	0.20	ug/L	6	<	100	70-130			AEZ	
1,1,2-Trichloroethane	6.4	0.20	ug/L	6	<	107	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	8.4	0.20	ug/L	6	<	141	70-130			AEZ	M1
1,1-Dichloroethane	7.2	0.20	ug/L	6	<	121	70-130			AEZ	
1,1-Dichloroethene	7.6	0.50	ug/L	6	<	126	70-130			AEZ	
1,1-Dichloropropene	7.8	0.20	ug/L	6	<	130	70-130			AEZ	
1,2,3-Trichlorobenzene	6.5	1.0	ug/L	6	<	108	70-130			AEZ	
1,2,3-Trichloropropane	5.8	0.50	ug/L	6	<	97	70-130			AEZ	
1,2,4-Trichlorobenzene	6.8	0.50	ug/L	6	<	113	70-130			AEZ	
1,2,4-Trimethylbenzene	7.2	0.50	ug/L	6	<	121	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	5.7	2.0	ug/L	6	<	95	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	6.5	0.50	ug/L	6	<	109	70-130			AEZ	T5
1,2-Dichlorobenzene	6.4	0.20	ug/L	6	<	106	70-130			AEZ	
1,2-Dichloroethane	6.4	0.20	ug/L	6	<	107	70-130			AEZ	
1,2-Dichloropropane	6.3	0.20	ug/L	6	<	105	70-130			AEZ	
1,3,5-Trimethylbenzene	7.3	0.50	ug/L	6	<	122	70-130			AEZ	
1,3-Dichlorobenzene	6.9	0.20	ug/L	6	<	115	70-130			AEZ	
1,3-Dichloropropane	6.3	0.20	ug/L	6	<	105	70-130			AEZ	
1,4-Dichlorobenzene	6.6	0.20	ug/L	6	<	109	70-130			AEZ	
2,2-Dichloropropane	8.6	0.50	ug/L	6	<	144	70-130			AEZ	M1
2-Chlorotoluene	7.0	0.50	ug/L	6	<	116	70-130			AEZ	
4-Chlorotoluene	7.0	0.50	ug/L	6	<	116	70-130			AEZ	
Acetone	57	20	ug/L	60	<	95	70-130			AEZ	
Allyl chloride	7.4	0.50	ug/L	6	<	123	70-130			AEZ	
Benzene	7.0	0.20	ug/L	6	<	116	70-130			AEZ	
Bromobenzene	6.4	0.20	ug/L	6	<	107	70-130			AEZ	
Bromochloromethane	6.2	0.50	ug/L	6	<	104	70-130			AEZ	
Bromodichloromethane	6.7	0.20	ug/L	6	<	112	70-130			AEZ	
Bromoform	6.2	0.50	ug/L	6	<	103	70-130			AEZ	
Bromomethane	6.7	1.0	ug/L	6	<	112	70-130			AEZ	
Carbon tetrachloride	7.5	0.20	ug/L	6	<	125	70-130			AEZ	
Chlorobenzene	6.9	0.20	ug/L	6	<	114	70-130			AEZ	
Chlorodibromomethane	6.3	0.50	ug/L	6	<	104	70-130			AEZ	
Chloroethane	6.7	0.50	ug/L	6	<	111	70-130			AEZ	
Chloroform	6.9	0.10	ug/L	6	0.13	113	70-130			AEZ	
Chloromethane	6.8	1.0	ug/L	6	<	113	70-130			AEZ	
cis-1,2-Dichloroethene	7.0	0.20	ug/L	6	<	116	70-130			AEZ	
cis-1,3-Dichloropropene	6.8	0.20	ug/L	6	<	114	70-130			AEZ	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

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Batch B4C0671 - EPA 524 Prep

Analyte	Source: 24C0399-02				Prepared: 03/12/24 14:05 Analyzed: 03/12/24 14:05						
	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	7.0	0.50	ug/L	6	<	116	70-130			AEZ	
Dichlorodifluoromethane	7.9	1.0	ug/L	6	<	132	70-130			AEZ	M1
Dichlorofluoromethane	6.9	0.50	ug/L	6	<	116	70-130			AEZ	
Ethyl ether	6.2	2.0	ug/L	6	<	103	70-130			AEZ	
Ethylbenzene	7.3	0.50	ug/L	6	<	121	70-130			AEZ	
Hexachlorobutadiene	8.0	1.0	ug/L	6	<	133	70-130			AEZ	M1
Isopropylbenzene	7.5	0.50	ug/L	6	<	125	70-130			AEZ	
Methyl ethyl ketone (MEK)	30	10	ug/L	30	<	99	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	31	5.0	ug/L	30	<	104	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	6.2	2.0	ug/L	6	<	104	70-130			AEZ	
Methylene chloride	6.7	0.50	ug/L	6	<	112	70-130			AEZ	
Naphthalene	6.2	1.0	ug/L	6	<	103	70-130			AEZ	
n-Butylbenzene	8.4	0.50	ug/L	6	<	140	70-130			AEZ	M1
n-Propylbenzene	7.5	0.50	ug/L	6	<	124	70-130			AEZ	
o-Xylene	6.9	0.20	ug/L	6	<	114	70-130			AEZ	
p and m-Xylene	7.2	0.30	ug/L	6	<	119	70-130			AEZ	
p-Isopropyltoluene	7.7	0.50	ug/L	6	<	129	70-130			AEZ	
sec-Butylbenzene	7.9	0.50	ug/L	6	<	132	70-130			AEZ	M1
Styrene	6.6	0.50	ug/L	6	<	111	70-130			AEZ	
tert-Butylbenzene	7.3	0.50	ug/L	6	<	121	70-130			AEZ	
Tetrachloroethene	7.7	0.20	ug/L	6	<	128	70-130			AEZ	
Tetrahydrofuran (THF)	59	10	ug/L	60	<	98	70-130			AEZ	
Toluene	6.9	0.20	ug/L	6	<	115	70-130			AEZ	
trans-1,2-Dichloroethene	7.4	0.10	ug/L	6	<	124	70-130			AEZ	
trans-1,3-Dichloropropene	6.6	0.20	ug/L	6	<	110	70-130			AEZ	
Trichloroethene (TCE)	7.5	0.10	ug/L	6	<	126	70-130			AEZ	
Trichlorofluoromethane	7.6	0.50	ug/L	6	<	127	70-130			AEZ	
Vinyl chloride	7.7	0.20	ug/L	6	<	129	70-130			AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	100	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	99	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	99	70-130	%	10						AEZ	

Data Qualifiers and Definitions

- M1 Matrix spike and/or matrix spike duplicate recovery was high; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
- T5 The reported result cannot be used for compliance purposes.

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1270053

Work Order Comments

SP-02 cancelled, No non-THM detects in VOC samples, Trip Blank not analyzed per 524.3 method. -CTS 03/13/24

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