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: 1700021
System Name: Westridge Lake Estates
City: Shakopee

Program Code: HC
Type: B

Date Received: 11/05/24 12:54
Rep. Temp. (°C): 3.6

Collector Name: Andrew Karp
Collector ID: 8126

MDH Sample Number: 24K0248-01

Location ID: E03
Sampling Point: COMBINED DISCHARGE
Field Number: AK526

Collect Date: 11/05/24
Collect Time: 10:45
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 Result: None

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

General Chemistry Parameters

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Sulfate	**22.7**	0.50	mg/L	B4K0693	11/12/24 15:57	11/13/24 05:29	NMT	EPA 300.1	

Metal Parameters

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Sodium	**5.74**	0.50	mg/L	B4K0757	11/14/24 13:52	11/15/24 13:18	DVH	EPA 200.7	

VOCs by GCMS

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1,1-Trichloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1,2-Trichloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1-Dichloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1-Dichloroethene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,1-Dichloropropene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2,3-Trichlorobenzene	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2,3-Trichloropropane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2,4-Trichlorobenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2,4-Trimethylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	T5
1,2-Dichlorobenzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2-Dichloroethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,2-Dichloropropane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,3,5-Trimethylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,3-Dichlorobenzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	

FINAL REPORT Report ID: 12062024145206 Generated: 12/6/2024 2:51:58PM

Authorized by:

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

PWSID: 1700021

MDH Sample Number: 24K0248-01

Location ID: E03
Sampling Point: COMBINED DISCHARGE
Field Number: AK526

Collect Date: 11/05/24
Collect Time: 10:45
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 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
1,3-Dichloropropane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
1,4-Dichlorobenzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
2,2-Dichloropropane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
2-Chlorotoluene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
4-Chlorotoluene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Acetone	<	20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Allyl chloride	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Benzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Bromobenzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Bromochloromethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Bromodichloromethane	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Bromoform	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Bromomethane	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	V1
Carbon tetrachloride	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Chlorobenzene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Chlorodibromomethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Chloroethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	V1
Chloroform	<	0.10	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Chloromethane	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
cis-1,2-Dichloroethene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
cis-1,3-Dichloropropene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Dibromomethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Dichlorodifluoromethane	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Dichlorofluoromethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	V1
Ethyl ether	<	2.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Ethylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Hexachlorobutadiene	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Isopropylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Methyl ethyl ketone (MEK)	<	10	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Methylene chloride	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Naphthalene	<	1.0	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
n-Butylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
n-Propylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
o-Xylene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
p and m-Xylene	<	0.30	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
p-Isopropyltoluene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	

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

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

PWSID: 1700021

MDH Sample Number: 24K0248-01

Location ID: E03
Sampling Point: COMBINED DISCHARGE
Field Number: AK526

Collect Date: 11/05/24
Collect Time: 10:45
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO_4 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
sec-Butylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Styrene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
tert-Butylbenzene	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Tetrachloroethene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Tetrahydrofuran (THF)	<	10	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Toluene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
trans-1,2-Dichloroethene	<	0.10	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
trans-1,3-Dichloropropene	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Trichloroethene (TCE)	<	0.10	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Trichlorofluoromethane	<	0.50	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Vinyl chloride	<	0.20	ug/L	B4K0661	11/08/24 20:28	11/08/24 20:28	AEZ	EPA 524.3	
Surrogate: 1,2-Dichlorobenzene-d4	*108*	*70-130*	%	*B4K0661*	*11/08/24 20:28*	*11/08/24 20:28*	*AEZ*	*EPA 524.3*	
Surrogate: 4-Bromofluorobenzene	*88*	*70-130*	%	*B4K0661*	*11/08/24 20:28*	*11/08/24 20:28*	*AEZ*	*EPA 524.3*	
Surrogate: Methyl tertiary butyl ether-d3	*88*	*70-130*	%	*B4K0661*	*11/08/24 20:28*	*11/08/24 20:28*	*AEZ*	*EPA 524.3*	

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PWSID: 1700021

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Batch B4K0693 - General Chemistry Prep

Blank (B4K0693-BLK1) **Prepared: 11/12/24 15:57 Analyzed: 11/12/24 23:11**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	<	0.50	mg/L							NMT	

LCS (B4K0693-BS1) **Prepared: 11/12/24 15:57 Analyzed: 11/12/24 23:30**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	104		mg/L	100.02		104	85-115			NMT	

Duplicate (B4K0693-DUP1) Source: 24K0066-01 **Prepared: 11/12/24 15:57 Analyzed: 11/13/24 00:08**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	9.92	0.50	mg/L		9.91			0.1	10	NMT	

Duplicate (B4K0693-DUP2) Source: 24K0067-01 **Prepared: 11/12/24 15:57 Analyzed: 11/13/24 00:45**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	16.1	0.50	mg/L		16.1			0.09	10	NMT	

Matrix Spike (B4K0693-MS1) Source: 24K0076-01 **Prepared: 11/12/24 15:57 Analyzed: 11/13/24 01:23**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	204		mg/L	100.02		98	75-125			NMT	

Matrix Spike (B4K0693-MS2) Source: 24K0076-02 **Prepared: 11/12/24 15:57 Analyzed: 11/13/24 02:01**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	192		mg/L	100.02		98	75-125			NMT	

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Batch B4K0757 - Metals Prep

Blank (B4K0757-BLK1) — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 12:24**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	<	0.50	mg/L							DVH	

LCS (B4K0757-BS1) — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 12:25**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	10.2		mg/L	10		102	85-115			DVH	

Duplicate (B4K0757-DUP1) — Source: 24J4049-01 — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 12:30**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	2.64	0.50	mg/L		2.62			0.7	20	DVH	

Duplicate (B4K0757-DUP2) — Source: 24K0176-01 — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 13:00**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	4.78	0.50	mg/L		4.87			2	20	DVH	

Matrix Spike (B4K0757-MS1) — Source: 24J4049-01 — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 12:32**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	13.3		mg/L	10		106	85-115			DVH	

Matrix Spike (B4K0757-MS2) — Source: 24K0176-01 — **Prepared: 11/14/24 13:52 Analyzed: 11/15/24 13:02**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	14.7		mg/L	10		98	85-115			DVH	

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Batch B4K0661 - EPA 524 Prep

Blank (B4K0661-BLK1) **Prepared: 11/08/24 15:56 Analyzed: 11/08/24 15:56**

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	V1
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	V1
Chloroform	<	0.10	ug/L							AEZ	
Chloromethane	<	1.0	ug/L							AEZ	
cis-1,2-Dichloroethene	<	0.20	ug/L							AEZ	
cis-1,3-Dichloropropene	<	0.20	ug/L							AEZ	

Authorized by:



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

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651-201-5300

PWSID: 1700021

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Batch B4K0661 - EPA 524 Prep

Blank (B4K0661-BLK1) **Prepared: 11/08/24 15:56 Analyzed: 11/08/24 15:56**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	<	0.50	ug/L							AEZ	
Dichlorodifluoromethane	<	1.0	ug/L							AEZ	
Dichlorofluoromethane	<	0.50	ug/L							AEZ	V1
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	*108*	*70-130*	*%*	*10*						AEZ	
Surrogate: 4-Bromofluorobenzene	*88*	*70-130*	*%*	*10*						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	*91*	*70-130*	*%*	*10*						AEZ	

Authorized by:



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

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Batch B4K0661 - EPA 524 Prep

LCS (B4K0661-BS1) **Prepared: 11/08/24 22:17 Analyzed: 11/08/24 22:17**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	4.1	0.20	ug/L	4		102	70-130			AEZ	
1,1,1-Trichloroethane	4.6	0.20	ug/L	4		115	70-130			AEZ	
1,1,2,2-Tetrachloroethane	4.3	0.20	ug/L	4		108	70-130			AEZ	
1,1,2-Trichloroethane	4.6	0.20	ug/L	4		114	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	4.8	0.20	ug/L	4		120	70-130			AEZ	
1,1-Dichloroethane	4.9	0.20	ug/L	4		122	70-130			AEZ	
1,1-Dichloroethene	4.5	0.50	ug/L	4		112	70-130			AEZ	
1,1-Dichloropropene	4.3	0.20	ug/L	4		107	70-130			AEZ	
1,2,3-Trichlorobenzene	3.8	1.0	ug/L	4		94	70-130			AEZ	
1,2,3-Trichloropropane	4.2	0.50	ug/L	4		104	70-130			AEZ	
1,2,4-Trichlorobenzene	3.5	0.50	ug/L	4		88	70-130			AEZ	
1,2,4-Trimethylbenzene	3.6	0.50	ug/L	4		90	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	3.5	2.0	ug/L	4		88	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	4.2	0.50	ug/L	4		104	70-130			AEZ	T5
1,2-Dichlorobenzene	4.2	0.20	ug/L	4		106	70-130			AEZ	
1,2-Dichloroethane	5.0	0.20	ug/L	4		125	70-130			AEZ	
1,2-Dichloropropane	4.9	0.20	ug/L	4		121	70-130			AEZ	
1,3,5-Trimethylbenzene	3.7	0.50	ug/L	4		91	70-130			AEZ	
1,3-Dichlorobenzene	4.2	0.20	ug/L	4		104	70-130			AEZ	
1,3-Dichloropropane	4.3	0.20	ug/L	4		108	70-130			AEZ	
1,4-Dichlorobenzene	4.2	0.20	ug/L	4		104	70-130			AEZ	
2,2-Dichloropropane	3.9	0.50	ug/L	4		99	70-130			AEZ	
2-Chlorotoluene	3.6	0.50	ug/L	4		91	70-130			AEZ	
4-Chlorotoluene	3.8	0.50	ug/L	4		94	70-130			AEZ	
Acetone	47	20	ug/L	40		117	70-130			AEZ	
Allyl chloride	4.1	0.50	ug/L	4		102	70-130			AEZ	
Benzene	5.0	0.20	ug/L	4		125	70-130			AEZ	
Bromobenzene	4.0	0.20	ug/L	4		100	70-130			AEZ	
Bromochloromethane	4.7	0.50	ug/L	4		117	70-130			AEZ	
Bromodichloromethane	4.4	0.20	ug/L	4		110	70-130			AEZ	
Bromoform	3.6	0.50	ug/L	4		89	70-130			AEZ	
Bromomethane	6.9	1.0	ug/L	4		173	70-130			AEZ	V1
Carbon tetrachloride	4.3	0.20	ug/L	4		108	70-130			AEZ	
Chlorobenzene	4.4	0.20	ug/L	4		109	70-130			AEZ	
Chlorodibromomethane	3.7	0.50	ug/L	4		94	70-130			AEZ	
Chloroethane	5.1	0.50	ug/L	4		126	70-130			AEZ	V1
Chloroform	5.0	0.10	ug/L	4		126	70-130			AEZ	
Chloromethane	4.1	1.0	ug/L	4		101	70-130			AEZ	
cis-1,2-Dichloroethene	4.4	0.20	ug/L	4		109	70-130			AEZ	
cis-1,3-Dichloropropene	3.4	0.20	ug/L	4		86	70-130			AEZ	

Authorized by:



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

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Batch B4K0661 - EPA 524 Prep

LCS (B4K0661-BS1) **Prepared: 11/08/24 22:17 Analyzed: 11/08/24 22:17**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	5.1	0.50	ug/L	4		127	70-130			AEZ	
Dichlorodifluoromethane	4.3	1.0	ug/L	4		106	70-130			AEZ	
Dichlorofluoromethane	5.7	0.50	ug/L	4		142	70-130			AEZ	V1
Ethyl ether	5.0	2.0	ug/L	4		124	70-130			AEZ	
Ethylbenzene	3.9	0.50	ug/L	4		97	70-130			AEZ	
Hexachlorobutadiene	3.7	1.0	ug/L	4		91	70-130			AEZ	
Isopropylbenzene	3.5	0.50	ug/L	4		88	70-130			AEZ	
Methyl ethyl ketone (MEK)	21	10	ug/L	20		107	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	16	5.0	ug/L	20		81	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	4.3	2.0	ug/L	4		108	70-130			AEZ	
Methylene chloride	5.2	0.50	ug/L	4		129	70-130			AEZ	
Naphthalene	3.0	1.0	ug/L	4		76	70-130			AEZ	
n-Butylbenzene	3.5	0.50	ug/L	4		87	70-130			AEZ	
n-Propylbenzene	3.6	0.50	ug/L	4		91	70-130			AEZ	
o-Xylene	3.5	0.20	ug/L	4		88	70-130			AEZ	
p and m-Xylene	3.6	0.30	ug/L	4		90	70-130			AEZ	
p-Isopropyltoluene	3.3	0.50	ug/L	4		84	70-130			AEZ	
sec-Butylbenzene	3.6	0.50	ug/L	4		91	70-130			AEZ	
Styrene	3.3	0.50	ug/L	4		84	70-130			AEZ	
tert-Butylbenzene	3.2	0.50	ug/L	4		81	70-130			AEZ	
Tetrachloroethene	4.4	0.20	ug/L	4		109	70-130			AEZ	
Tetrahydrofuran (THF)	39	10	ug/L	40		98	70-130			AEZ	
Toluene	3.6	0.20	ug/L	4		90	70-130			AEZ	
trans-1,2-Dichloroethene	4.9	0.10	ug/L	4		121	70-130			AEZ	
trans-1,3-Dichloropropene	3.9	0.20	ug/L	4		97	70-130			AEZ	
Trichloroethene (TCE)	4.5	0.10	ug/L	4		112	70-130			AEZ	
Trichlorofluoromethane	5.0	0.50	ug/L	4		124	70-130			AEZ	
Vinyl chloride	4.4	0.20	ug/L	4		109	70-130			AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	*101*	*70-130*	*%*	*10*						AEZ	
Surrogate: 4-Bromofluorobenzene	*87*	*70-130*	*%*	*10*						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	*87*	*70-130*	*%*	*10*						AEZ	

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Batch B4K0661 - EPA 524 Prep

Duplicate (B4K0661-DUP1) Source: 24K0270-01 **Prepared: 11/08/24 21:49 Analyzed: 11/08/24 21:49**

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	V1
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	V1
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	

Authorized by:



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

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Batch B4K0661 - EPA 524 Prep

Duplicate (B4K0661-DUP1) Source: 24K0270-01 **Prepared: 11/08/24 21:49 Analyzed: 11/08/24 21:49**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	<	0.50	ug/L		<				30	AEZ	
Dichlorodifluoromethane	<	1.0	ug/L		<				30	AEZ	
Dichlorofluoromethane	<	0.50	ug/L		<				30	AEZ	V1
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)	<	0.10	ug/L		<				30	AEZ	
Trichlorofluoromethane	<	0.50	ug/L		<				30	AEZ	
Vinyl chloride	<	0.20	ug/L		<				30	AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	*109*	*70-130*	*%*	*10*						AEZ	
Surrogate: 4-Bromofluorobenzene	*88*	*70-130*	*%*	*10*						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	*93*	*70-130*	*%*	*10*						AEZ	

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Public Health Laboratory, Minnesota Department of Health

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Batch B4K0661 - EPA 524 Prep

MRL Check (B4K0661-MRL4) **Prepared: 11/08/24 15:28 Analyzed: 11/08/24 15:28**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,2,3-Trichlorobenzene	0.86	1.0	ug/L	1		86	50-150			AEZ	
Naphthalene	0.64	1.0	ug/L	1		64	50-150			AEZ	

Matrix Spike (B4K0661-MS1) Source: 24K0212-01 **Prepared: 11/08/24 16:23 Analyzed: 11/08/24 16:23**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	6.2	0.20	ug/L	6	<	103	70-130			AEZ	
1,1,1-Trichloroethane	7.0	0.20	ug/L	6	<	116	70-130			AEZ	
1,1,2,2-Tetrachloroethane	5.9	0.20	ug/L	6	<	99	70-130			AEZ	
1,1,2-Trichloroethane	6.7	0.20	ug/L	6	<	112	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	7.5	0.20	ug/L	6	<	125	70-130			AEZ	
1,1-Dichloroethane	7.1	0.20	ug/L	6	<	118	70-130			AEZ	
1,1-Dichloroethene	6.7	0.50	ug/L	6	<	111	70-130			AEZ	
1,1-Dichloropropene	6.8	0.20	ug/L	6	<	114	70-130			AEZ	
1,2,3-Trichlorobenzene	5.7	1.0	ug/L	6	<	95	70-130			AEZ	
1,2,3-Trichloropropane	5.9	0.50	ug/L	6	<	98	70-130			AEZ	
1,2,4-Trichlorobenzene	5.3	0.50	ug/L	6	<	89	70-130			AEZ	
1,2,4-Trimethylbenzene	5.7	0.50	ug/L	6	<	95	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	4.4	2.0	ug/L	6	<	74	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	6.2	0.50	ug/L	6	<	103	70-130			AEZ	T5
1,2-Dichlorobenzene	6.1	0.20	ug/L	6	<	102	70-130			AEZ	
1,2-Dichloroethane	6.8	0.20	ug/L	6	<	113	70-130			AEZ	
1,2-Dichloropropane	6.9	0.20	ug/L	6	<	115	70-130			AEZ	
1,3,5-Trimethylbenzene	5.8	0.50	ug/L	6	<	97	70-130			AEZ	
1,3-Dichlorobenzene	6.0	0.20	ug/L	6	<	99	70-130			AEZ	
1,3-Dichloropropane	6.3	0.20	ug/L	6	<	104	70-130			AEZ	
1,4-Dichlorobenzene	6.0	0.20	ug/L	6	<	99	70-130			AEZ	
2,2-Dichloropropane	6.1	0.50	ug/L	6	<	101	70-130			AEZ	
2-Chlorotoluene	5.6	0.50	ug/L	6	<	93	70-130			AEZ	
4-Chlorotoluene	5.6	0.50	ug/L	6	<	94	70-130			AEZ	
Acetone	60	20	ug/L	60	<	100	70-130			AEZ	
Allyl chloride	6.4	0.50	ug/L	6	<	106	70-130			AEZ	
Benzene	7.1	0.20	ug/L	6	<	119	70-130			AEZ	
Bromobenzene	5.9	0.20	ug/L	6	<	98	70-130			AEZ	
Bromochloromethane	6.7	0.50	ug/L	6	<	112	70-130			AEZ	
Bromodichloromethane	6.5	0.20	ug/L	6	<	108	70-130			AEZ	
Bromoform	5.3	0.50	ug/L	6	<	88	70-130			AEZ	
Bromomethane	11	1.0	ug/L	6	<	181	70-130			AEZ	V1, Z-01a

Authorized by:



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Batch B4K0661 - EPA 524 Prep

Matrix Spike (B4K0661-MS1) Source: 24K0212-01 **Prepared: 11/08/24 16:23 Analyzed: 11/08/24 16:23**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Carbon tetrachloride	6.9	0.20	ug/L	6	<	115	70-130			AEZ	
Chlorobenzene	6.3	0.20	ug/L	6	<	106	70-130			AEZ	
Chlorodibromomethane	5.7	0.50	ug/L	6	<	94	70-130			AEZ	
Chloroethane	8.1	0.50	ug/L	6	<	136	70-130			AEZ	M1, V1
Chloroform	7.0	0.10	ug/L	6	<	117	70-130			AEZ	
Chloromethane	6.6	1.0	ug/L	6	<	110	70-130			AEZ	
cis-1,2-Dichloroethene	6.5	0.20	ug/L	6	<	109	70-130			AEZ	
cis-1,3-Dichloropropene	5.1	0.20	ug/L	6	<	85	70-130			AEZ	
Dibromomethane	6.7	0.50	ug/L	6	<	112	70-130			AEZ	
Dichlorodifluoromethane	6.8	1.0	ug/L	6	<	113	70-130			AEZ	
Dichlorofluoromethane	8.3	0.50	ug/L	6	<	138	70-130			AEZ	V1, Z-01
Ethyl ether	6.9	2.0	ug/L	6	<	115	70-130			AEZ	
Ethylbenzene	6.0	0.50	ug/L	6	<	100	70-130			AEZ	
Hexachlorobutadiene	5.8	1.0	ug/L	6	<	96	70-130			AEZ	
Isopropylbenzene	5.8	0.50	ug/L	6	<	96	70-130			AEZ	
Methyl ethyl ketone (MEK)	28	10	ug/L	30	<	93	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	24	5.0	ug/L	30	<	79	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	6.2	2.0	ug/L	6	<	103	70-130			AEZ	
Methylene chloride	7.4	0.50	ug/L	6	<	123	70-130			AEZ	
Naphthalene	4.5	1.0	ug/L	6	<	75	70-130			AEZ	
n-Butylbenzene	5.7	0.50	ug/L	6	<	96	70-130			AEZ	
n-Propylbenzene	5.8	0.50	ug/L	6	<	97	70-130			AEZ	
o-Xylene	5.4	0.20	ug/L	6	<	90	70-130			AEZ	
p and m-Xylene	5.8	0.30	ug/L	6	<	96	70-130			AEZ	
p-Isopropyltoluene	5.6	0.50	ug/L	6	<	93	70-130			AEZ	
sec-Butylbenzene	5.9	0.50	ug/L	6	<	99	70-130			AEZ	
Styrene	5.4	0.50	ug/L	6	<	90	70-130			AEZ	
tert-Butylbenzene	5.2	0.50	ug/L	6	<	87	70-130			AEZ	
Tetrachloroethene	6.6	0.20	ug/L	6	<	110	70-130			AEZ	
Tetrahydrofuran (THF)	54	10	ug/L	60	<	89	70-130			AEZ	
Toluene	5.6	0.20	ug/L	6	<	93	70-130			AEZ	
trans-1,2-Dichloroethene	7.2	0.10	ug/L	6	<	120	70-130			AEZ	
trans-1,3-Dichloropropene	5.8	0.20	ug/L	6	<	97	70-130			AEZ	
Trichloroethene (TCE)	6.8	0.10	ug/L	6	<	114	70-130			AEZ	
Trichlorofluoromethane	8.1	0.50	ug/L	6	<	135	70-130			AEZ	M1
Vinyl chloride	8.0	0.20	ug/L	6	<	133	70-130			AEZ	M1
Surrogate: 1,2-Dichlorobenzene-d4	*101*	*70-130*	*%*	*10*						AEZ	
Surrogate: 4-Bromofluorobenzene	*89*	*70-130*	*%*	*10*						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	*87*	*70-130*	*%*	*10*						AEZ	

Authorized by:



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

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

Batch B4K0661 - EPA 524 Prep

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.
V1	Calibration verification standard recovery was above method acceptance limits. This target analyte was not detected in the sample.
Z-01	Matrix spike recovery was high. Blank spike and continuing calibration verification standard were also high. Target analyte not detected in sample.
Z-01a	Matrix spike recovery was high. Method report level verification standard, blank spike and continuing calibration verification standard were also high. Target analyte not detected in sample.

Work Order Comments

SP-02 cancelled, no non-THM detects in VOC samples, Trip Blank not analyzed per 524.3 method. -CNN 11/12/24

Authorized by:



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

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