

PWSID: 1720006 Program Code: HC Type: B
System Name: Henderson
City: Henderson

Date Received: 05/17/24 10:12 Collector Name: Amy L. Lynch
Rep. Temp. (°C): 2.1 Collector ID: 8032

MDH Sample Number: 24E1737-01

Location ID: D01 Collect Date: 05/16/24 Field Residual Chlorine Result: None
Sampling Point: Distribution/Shop Collect Time: 12:10 Field Fluoride Result: None
Field Number: AL24104 Matrix: Drinking Water Field pH Result: None
Field PO₄ 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
Fluoride, Total	0.39	0.20	mg/L	B4E1375	05/23/24 09:28	05/24/24 15:26	NMT	SM 4500-F C 22nd ED	

MDH Sample Number: 24E1737-02

Location ID: E01 Collect Date: 05/16/24 Field Residual Chlorine Result: None
Sampling Point: Well #1 Entry Point Collect Time: 11:40 Field Fluoride Result: None
Field Number: AL24100 Matrix: Drinking Water Field pH Result: None
Field PO₄ 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
Cyanide, Free	<	0.05	mg/L	B4E1413	05/24/24 08:40	05/24/24 10:00	NMM	SM 4500-CN F 22nd ED	W8
Sulfate	123	0.50	mg/L	B4E1338	05/22/24 11:17	05/22/24 14:33	NMT	EPA 300.1	

Metal Parameters

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Arsenic	<	1.00	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Barium	34.4	20.0	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Beryllium	<	0.40	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Cadmium	<	0.50	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Chromium	<	10.0	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Mercury	<	0.020	ug/L	B4E1485	05/29/24 08:46	05/30/24 11:57	RCC	EPA 245.1	

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

PWSID: 1720006

MDH Sample Number: 24E1737-02

Location ID: E01

Collect Date: 05/16/24

Field Residual Chlorine Result: None

Sampling Point: Well #1 Entry Point

Collect Time: 11:40

Field Fluoride Result: None

Field Number: AL24100

Matrix: Drinking Water

Field pH Result: None

Field PO₄ Result: None

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

Metal Parameters - Continued

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Sodium	43.7	0.50	mg/L	B4E1547	05/30/24 13:43	05/31/24 09:13	DVH	EPA 200.7	
Nickel	<	10.0	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Antimony	<	0.60	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Selenium	<	5.00	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	
Thallium	<	1.00	ug/L	B4E1287	05/20/24 14:40	05/20/24 18:32	RCC	EPA 200.8	

VOCs by GCMS

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
1,1,1,2-Tetrachloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1,1-Trichloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1,2-Trichloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1-Dichloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1-Dichloroethene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,1-Dichloropropene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2,3-Trichlorobenzene	<	1.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2,3-Trichloropropane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2,4-Trichlorobenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2,4-Trimethylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	T5
1,2-Dichlorobenzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2-Dichloroethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,2-Dichloropropane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,3,5-Trimethylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,3-Dichlorobenzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,3-Dichloropropane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
1,4-Dichlorobenzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
2,2-Dichloropropane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
2-Chlorotoluene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
4-Chlorotoluene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Acetone	<	20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Allyl chloride	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Benzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Bromobenzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Bromochloromethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Bromodichloromethane	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Bromoform	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	

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

PWSID: 1720006

MDH Sample Number: 24E1737-02

Location ID: E01
Sampling Point: Well #1 Entry Point
Field Number: AL24100

Collect Date: 05/16/24
Collect Time: 11:40
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
Bromomethane	<	1.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Carbon tetrachloride	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Chlorobenzene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Chlorodibromomethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Chloroethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Chloroform	<	0.10	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Chloromethane	<	1.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
cis-1,2-Dichloroethene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
cis-1,3-Dichloropropene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Dibromomethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Dichlorodifluoromethane	<	1.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Dichlorofluoromethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Ethyl ether	<	2.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Ethylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Isopropylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Methyl ethyl ketone (MEK)	<	10	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Methylene chloride	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Naphthalene	<	1.0	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
n-Propylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
o-Xylene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
p and m-Xylene	<	0.30	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
p-Isopropyltoluene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
sec-Butylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Styrene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
tert-Butylbenzene	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Tetrachloroethene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Tetrahydrofuran (THF)	<	10	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Toluene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
trans-1,2-Dichloroethene	<	0.10	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
trans-1,3-Dichloropropene	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Trichloroethene (TCE)	<	0.10	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Trichlorofluoromethane	<	0.50	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Vinyl chloride	<	0.20	ug/L	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Surrogate: 1,2-Dichlorobenzene-d4	107	70-130	%	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	
Surrogate: Methyl tertiary butyl ether-d3	102	70-130	%	B4E1276	05/21/24 01:21	05/21/24 01:21	CLS	EPA 524.3	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

MDH Sample Number: 24E1737-02RE1

Location ID: E01	Collect Date: 05/16/24	Field Residual Chlorine Result: None
Sampling Point: Well #1 Entry Point	Collect Time: 11:40	Field Fluoride Result: None
Field Number: AL24100	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
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	
Hexachlorobutadiene	<	1.0	ug/L	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	
n-Butylbenzene	<	0.50	ug/L	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	
Surrogate: 1,2-Dichlorobenzene-d4	107	70-130	%	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	
Surrogate: 4-Bromofluorobenzene	96	70-130	%	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	
Surrogate: Methyl tertiary butyl ether-d3	105	70-130	%	B4E1361	05/22/24 17:44	05/22/24 17:44	AEZ	EPA 524.3	

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PWSID: 1720006

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Batch B4E1338 - General Chemistry Prep

Blank (B4E1338-BLK1) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 12:39

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

LCS (B4E1338-BS1) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 12:58

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	102		mg/L	100.02		102	85-115			NMT	

Duplicate (B4E1338-DUP1) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 14:14

Source: 24E1412-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	46.8	0.50	mg/L		46.8			0.02	10	NMT	

Duplicate (B4E1338-DUP2) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 14:52

Source: 24E1737-02

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	123	0.50	mg/L		123			0.06	10	NMT	

Matrix Spike (B4E1338-MS1) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 15:29

Source: 24E1750-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	133		mg/L	100.02		102	75-125			NMT	

Matrix Spike (B4E1338-MS2) Prepared: 05/22/24 11:17 Analyzed: 05/22/24 16:07

Source: 24E1750-02

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sulfate	132		mg/L	100.02		106	75-125			NMT	

Batch B4E1375 - General Chemistry Prep

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Batch B4E1375 - General Chemistry Prep

Blank (B4E1375-BLK1) Prepared: 05/23/24 09:28 Analyzed: 05/24/24 15:15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Fluoride, Total	<	0.20	mg/L							NMT	

LCS (B4E1375-BS1) Prepared: 05/23/24 09:28 Analyzed: 05/24/24 15:18

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Fluoride, Total	1.97		mg/L	2		99	90-110			NMT	

Duplicate (B4E1375-DUP1) Prepared: 05/23/24 09:28 Analyzed: 05/24/24 15:23

Source: 24E1720-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Fluoride, Total	0.78	0.20	mg/L		0.78			0.5	10	NMT	

Matrix Spike (B4E1375-MS1) Prepared: 05/23/24 09:28 Analyzed: 05/24/24 15:29

Source: 24E1737-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Fluoride, Total	2.40		mg/L	2		100	90-110			NMT	

Matrix Spike Dup (B4E1375-MSD1) Prepared: 05/23/24 09:28 Analyzed: 05/24/24 15:32

Source: 24E1737-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Fluoride, Total	2.38		mg/L	2		100	90-110	0.5	10	NMT	

Batch B4E1413 - General Chemistry Prep

Blank (B4E1413-BLK1) Prepared: 05/24/24 08:40 Analyzed: 05/24/24 09:49

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	<	0.05	mg/L							NMM	

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PWSID: 1720006

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Batch B4E1413 - General Chemistry Prep

LCS (B4E1413-BS1)

Prepared: 05/24/24 08:40 Analyzed: 05/24/24 09:54

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	0.18	0.05	mg/L	0.2		92	90-110			NMM	

Duplicate (B4E1413-DUP1)

Source: 24E1737-02

Prepared: 05/24/24 08:40 Analyzed: 05/24/24 10:05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	0.02	0.05	mg/L		<			24	10	NMM	W8

Matrix Spike (B4E1413-MS1)

Source: 24E2113-01

Prepared: 05/24/24 08:40 Analyzed: 05/24/24 10:15

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	0.20	0.05	mg/L	0.2	<	94	90-110			NMM	

Matrix Spike Dup (B4E1413-MSD1)

Source: 24E2113-01

Prepared: 05/24/24 08:40 Analyzed: 05/24/24 10:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	0.21	0.05	mg/L	0.2	<	98	90-110	4	10	NMM	

Reference (B4E1413-SRM1)

Prepared: 05/24/24 08:40 Analyzed: 05/24/24 09:44

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Cyanide, Free	0.40	0.05	mg/L	0.37		108	85-115			NMM	

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

PWSID: 1720006

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

Batch B4E1287 - EPA 200 Series Prep

Blank (B4E1287-BLK1)

Prepared: 05/20/24 14:40 Analyzed: 05/20/24 17:36

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	<	0.60	ug/L							RCC	
Arsenic	<	1.00	ug/L							RCC	
Barium	<	20.0	ug/L							RCC	
Beryllium	<	0.40	ug/L							RCC	
Cadmium	<	0.50	ug/L							RCC	
Chromium	<	10.0	ug/L							RCC	
Nickel	<	10.0	ug/L							RCC	
Selenium	<	5.00	ug/L							RCC	
Thallium	<	1.00	ug/L							RCC	

LCS (B4E1287-BS1)

Prepared: 05/20/24 14:40 Analyzed: 05/20/24 17:39

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	46.5		ug/L	50		93	85-115			RCC	
Arsenic	48.3		ug/L	50		97	85-115			RCC	
Barium	49.1		ug/L	50		98	85-115			RCC	
Beryllium	50.6		ug/L	50		101	85-115			RCC	
Cadmium	46.0		ug/L	50		92	85-115			RCC	
Chromium	49.4		ug/L	50		99	85-115			RCC	
Nickel	49.0		ug/L	50		98	85-115			RCC	
Selenium	47.3		ug/L	50		95	85-115			RCC	
Thallium	46.9		ug/L	50		94	85-115			RCC	

Duplicate (B4E1287-DUP1)

Source: 24E1057-02

Prepared: 05/20/24 14:40 Analyzed: 05/20/24 17:48

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	<	0.60	ug/L		<				20	RCC	
Arsenic	<	1.00	ug/L		<				20	RCC	
Barium	18.9	20.0	ug/L		<			3	20	RCC	
Beryllium	<	0.40	ug/L		<				20	RCC	
Cadmium	<	0.50	ug/L		<				20	RCC	
Chromium	0.68	10.0	ug/L		<			6	20	RCC	
Nickel	2.13	10.0	ug/L		<			0.4	20	RCC	
Selenium	1.18	5.00	ug/L		<			11	20	RCC	
Thallium	<	1.00	ug/L		<				20	RCC	

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Batch B4E1287 - EPA 200 Series Prep

Duplicate (B4E1287-DUP2) Source: 24E1737-02 Prepared: 05/20/24 14:40 Analyzed: 05/20/24 18:35

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	<	0.60	ug/L		<				20	RCC	
Arsenic	0.68	1.00	ug/L		<			1	20	RCC	
Barium	33.3	20.0	ug/L		34.4			3	20	RCC	
Beryllium	<	0.40	ug/L		<				20	RCC	
Cadmium	<	0.50	ug/L		<				20	RCC	
Chromium	0.67	10.0	ug/L		<			4	20	RCC	
Nickel	2.64	10.0	ug/L		<			2	20	RCC	
Selenium	<	5.00	ug/L		<				20	RCC	
Thallium	<	1.00	ug/L		<				20	RCC	

Matrix Spike (B4E1287-MS1) Source: 24E1057-02 Prepared: 05/20/24 14:40 Analyzed: 05/20/24 17:51

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	49.4		ug/L	50		99	70-130			RCC	
Arsenic	50.7		ug/L	50		101	70-130			RCC	
Barium	62.6		ug/L	50		86	70-130			RCC	
Beryllium	53.5		ug/L	50		107	70-130			RCC	
Cadmium	46.1		ug/L	50		92	70-130			RCC	
Chromium	49.6		ug/L	50		98	70-130			RCC	
Nickel	46.9		ug/L	50		90	70-130			RCC	
Selenium	50.9		ug/L	50		99	70-130			RCC	
Thallium	46.2		ug/L	50		92	70-130			RCC	

Matrix Spike (B4E1287-MS2) Source: 24E1737-02 Prepared: 05/20/24 14:40 Analyzed: 05/20/24 18:38

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Antimony	49.3		ug/L	50		99	70-130			RCC	
Arsenic	49.9		ug/L	50		99	70-130			RCC	
Barium	82.5		ug/L	50		96	70-130			RCC	
Beryllium	52.2		ug/L	50		104	70-130			RCC	
Cadmium	45.8		ug/L	50		92	70-130			RCC	
Chromium	49.0		ug/L	50		97	70-130			RCC	
Nickel	47.1		ug/L	50		89	70-130			RCC	
Selenium	46.8		ug/L	50		93	70-130			RCC	
Thallium	51.3		ug/L	50		103	70-130			RCC	

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Batch B4E1287 - EPA 200 Series Prep

Batch B4E1485 - EPA 245.1

Blank (B4E1485-BLK1)

Prepared: 05/29/24 08:46 Analyzed: 05/30/24 11:33

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Mercury	<	0.020	ug/L							RCC	

LCS (B4E1485-BS1)

Prepared: 05/29/24 08:46 Analyzed: 05/30/24 11:35

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Mercury	0.467	0.020	ug/L	0.5		93	85-115			RCC	

Matrix Spike (B4E1485-MS1)

Source: 24E1352-01

Prepared: 05/29/24 08:46 Analyzed: 05/30/24 11:53

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Mercury	0.541	0.020	ug/L	0.5	0.067	95	70-130			RCC	

Matrix Spike Dup (B4E1485-MSD1)

Source: 24E1352-01

Prepared: 05/29/24 08:46 Analyzed: 05/30/24 11:55

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Mercury	0.537	0.020	ug/L	0.5	0.067	94	70-130	0.6	30	RCC	

Batch B4E1547 - Metals Prep

Blank (B4E1547-BLK1)

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 08:59

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

LCS (B4E1547-BS1)

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
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Batch B4E1547 - Metals Prep

LCS (B4E1547-BS1)

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	10.3		mg/L	10		103	85-115			DVH	

Duplicate (B4E1547-DUP1)

Source: 24E1326-01

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	5.04	0.50	mg/L		5.00			0.7	20	DVH	

Duplicate (B4E1547-DUP2)

Source: 24E2498-01

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:34

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	3.94	0.50	mg/L		3.97			0.8	20	DVH	

Matrix Spike (B4E1547-MS1)

Source: 24E1326-01

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:07

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	15.4		mg/L	10		104	85-115			DVH	

Matrix Spike (B4E1547-MS2)

Source: 24E2498-01

Prepared: 05/30/24 13:43 Analyzed: 05/31/24 09:36

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Sodium	14.2		mg/L	10		103	85-115			DVH	

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PWSID: 1720006

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Batch B4E1276 - EPA 524 Prep

Blank (B4E1276-BLK1)

Prepared: 05/20/24 14:04 Analyzed: 05/20/24 14:04

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							CLS	
1,1,1-Trichloroethane	<	0.20	ug/L							CLS	
1,1,2,2-Tetrachloroethane	<	0.20	ug/L							CLS	
1,1,2-Trichloroethane	<	0.20	ug/L							CLS	
1,1,2-Trichlorotrifluoroethane	<	0.20	ug/L							CLS	
1,1-Dichloroethane	<	0.20	ug/L							CLS	
1,1-Dichloroethene	<	0.50	ug/L							CLS	
1,1-Dichloropropene	<	0.20	ug/L							CLS	
1,2,3-Trichlorobenzene	<	1.0	ug/L							CLS	
1,2,3-Trichloropropane	<	0.50	ug/L							CLS	
1,2,4-Trichlorobenzene	<	0.50	ug/L							CLS	
1,2,4-Trimethylbenzene	<	0.50	ug/L							CLS	
1,2-Dibromo-3-chloropropane (DBCP)	<	2.0	ug/L							CLS	T5
1,2-Dibromoethane (EDB)	<	0.50	ug/L							CLS	T5
1,2-Dichlorobenzene	<	0.20	ug/L							CLS	
1,2-Dichloroethane	<	0.20	ug/L							CLS	
1,2-Dichloropropane	<	0.20	ug/L							CLS	
1,3,5-Trimethylbenzene	<	0.50	ug/L							CLS	
1,3-Dichlorobenzene	<	0.20	ug/L							CLS	
1,3-Dichloropropane	<	0.20	ug/L							CLS	
1,4-Dichlorobenzene	<	0.20	ug/L							CLS	
2,2-Dichloropropane	<	0.50	ug/L							CLS	
2-Chlorotoluene	<	0.50	ug/L							CLS	
4-Chlorotoluene	<	0.50	ug/L							CLS	
Acetone	<	20	ug/L							CLS	
Allyl chloride	<	0.50	ug/L							CLS	
Benzene	<	0.20	ug/L							CLS	
Bromobenzene	<	0.20	ug/L							CLS	
Bromochloromethane	<	0.50	ug/L							CLS	
Bromodichloromethane	<	0.20	ug/L							CLS	
Bromoform	<	0.50	ug/L							CLS	
Bromomethane	<	1.0	ug/L							CLS	
Carbon tetrachloride	<	0.20	ug/L							CLS	
Chlorobenzene	<	0.20	ug/L							CLS	
Chlorodibromomethane	<	0.50	ug/L							CLS	
Chloroethane	<	0.50	ug/L							CLS	
Chloroform	<	0.10	ug/L							CLS	
Chloromethane	<	1.0	ug/L							CLS	
cis-1,2-Dichloroethene	<	0.20	ug/L							CLS	
cis-1,3-Dichloropropene	<	0.20	ug/L							CLS	

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Batch B4E1276 - EPA 524 Prep

Blank (B4E1276-BLK1)

Prepared: 05/20/24 14:04 Analyzed: 05/20/24 14:04

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	<	0.50	ug/L							CLS	
Dichlorodifluoromethane	<	1.0	ug/L							CLS	
Dichlorofluoromethane	<	0.50	ug/L							CLS	
Ethyl ether	<	2.0	ug/L							CLS	
Ethylbenzene	<	0.50	ug/L							CLS	
Hexachlorobutadiene	<	1.0	ug/L							CLS	
Isopropylbenzene	<	0.50	ug/L							CLS	
Methyl ethyl ketone (MEK)	<	10	ug/L							CLS	
Methyl isobutyl ketone (MIBK)	<	5.0	ug/L							CLS	
Methyl tertiary butyl ether (MTBE)	<	2.0	ug/L							CLS	
Methylene chloride	<	0.50	ug/L							CLS	
Naphthalene	<	1.0	ug/L							CLS	
n-Butylbenzene	<	0.50	ug/L							CLS	
n-Propylbenzene	<	0.50	ug/L							CLS	
o-Xylene	<	0.20	ug/L							CLS	
p and m-Xylene	<	0.30	ug/L							CLS	
p-Isopropyltoluene	<	0.50	ug/L							CLS	
sec-Butylbenzene	<	0.50	ug/L							CLS	
Styrene	<	0.50	ug/L							CLS	
tert-Butylbenzene	<	0.50	ug/L							CLS	
Tetrachloroethene	<	0.20	ug/L							CLS	
Tetrahydrofuran (THF)	<	10	ug/L							CLS	
Toluene	<	0.20	ug/L							CLS	
trans-1,2-Dichloroethene	<	0.10	ug/L							CLS	
trans-1,3-Dichloropropene	<	0.20	ug/L							CLS	
Trichloroethene (TCE)	<	0.10	ug/L							CLS	
Trichlorofluoromethane	<	0.50	ug/L							CLS	
Vinyl chloride	<	0.20	ug/L							CLS	
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	%	10						CLS	
Surrogate: 4-Bromofluorobenzene	98	70-130	%	10						CLS	
Surrogate: Methyl tertiary butyl ether-d3	103	70-130	%	10						CLS	

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Batch B4E1276 - EPA 524 Prep

LCS (B4E1276-BS1)

Prepared: 05/20/24 20:23 Analyzed: 05/20/24 20:23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	3.7	0.20	ug/L	4		93	70-130			CLS	
1,1,1-Trichloroethane	3.5	0.20	ug/L	4		87	70-130			CLS	
1,1,1,2-Tetrachloroethane	4.0	0.20	ug/L	4		99	70-130			CLS	
1,1,2-Trichloroethane	4.0	0.20	ug/L	4		99	70-130			CLS	
1,1,2-Trichlorotrifluoroethane	3.3	0.20	ug/L	4		82	70-130			CLS	
1,1-Dichloroethane	3.8	0.20	ug/L	4		96	70-130			CLS	
1,1-Dichloroethene	3.5	0.50	ug/L	4		89	70-130			CLS	
1,1-Dichloropropene	3.3	0.20	ug/L	4		83	70-130			CLS	
1,2,3-Trichlorobenzene	3.4	1.0	ug/L	4		85	70-130			CLS	
1,2,3-Trichloropropane	3.8	0.50	ug/L	4		94	70-130			CLS	
1,2,4-Trichlorobenzene	3.5	0.50	ug/L	4		87	70-130			CLS	
1,2,4-Trimethylbenzene	3.4	0.50	ug/L	4		85	70-130			CLS	
1,2-Dibromo-3-chloropropane (DBCP)	4.1	2.0	ug/L	4		103	70-130			CLS	T5
1,2-Dibromoethane (EDB)	3.8	0.50	ug/L	4		96	70-130			CLS	T5
1,2-Dichlorobenzene	3.7	0.20	ug/L	4		93	70-130			CLS	
1,2-Dichloroethane	4.0	0.20	ug/L	4		101	70-130			CLS	
1,2-Dichloropropane	3.6	0.20	ug/L	4		90	70-130			CLS	
1,3,5-Trimethylbenzene	3.4	0.50	ug/L	4		86	70-130			CLS	
1,3-Dichlorobenzene	3.7	0.20	ug/L	4		91	70-130			CLS	
1,3-Dichloropropane	3.9	0.20	ug/L	4		96	70-130			CLS	
1,4-Dichlorobenzene	3.8	0.20	ug/L	4		94	70-130			CLS	
2,2-Dichloropropane	3.5	0.50	ug/L	4		88	70-130			CLS	
2-Chlorotoluene	3.5	0.50	ug/L	4		86	70-130			CLS	
4-Chlorotoluene	3.5	0.50	ug/L	4		87	70-130			CLS	
Acetone	44	20	ug/L	40		111	70-130			CLS	
Allyl chloride	3.8	0.50	ug/L	4		94	70-130			CLS	
Benzene	3.6	0.20	ug/L	4		90	70-130			CLS	
Bromobenzene	3.5	0.20	ug/L	4		87	70-130			CLS	
Bromochloromethane	3.7	0.50	ug/L	4		92	70-130			CLS	
Bromodichloromethane	3.7	0.20	ug/L	4		93	70-130			CLS	
Bromoform	3.9	0.50	ug/L	4		97	70-130			CLS	
Bromomethane	4.4	1.0	ug/L	4		111	70-130			CLS	
Carbon tetrachloride	3.5	0.20	ug/L	4		87	70-130			CLS	
Chlorobenzene	3.7	0.20	ug/L	4		91	70-130			CLS	
Chlorodibromomethane	3.9	0.50	ug/L	4		97	70-130			CLS	
Chloroethane	4.1	0.50	ug/L	4		102	70-130			CLS	
Chloroform	3.7	0.10	ug/L	4		92	70-130			CLS	
Chloromethane	4.1	1.0	ug/L	4		101	70-130			CLS	
cis-1,2-Dichloroethene	3.7	0.20	ug/L	4		93	70-130			CLS	
cis-1,3-Dichloropropene	3.5	0.20	ug/L	4		88	70-130			CLS	

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Batch B4E1276 - EPA 524 Prep

LCS (B4E1276-BS1)

Prepared: 05/20/24 20:23 Analyzed: 05/20/24 20:23

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	4.0	0.50	ug/L	4		100	70-130			CLS	
Dichlorodifluoromethane	4.0	1.0	ug/L	4		99	70-130			CLS	
Dichlorofluoromethane	3.7	0.50	ug/L	4		93	70-130			CLS	
Ethyl ether	3.9	2.0	ug/L	4		97	70-130			CLS	
Ethylbenzene	3.4	0.50	ug/L	4		86	70-130			CLS	
Hexachlorobutadiene	3.0	1.0	ug/L	4		76	70-130			CLS	
Isopropylbenzene	3.3	0.50	ug/L	4		83	70-130			CLS	
Methyl ethyl ketone (MEK)	20	10	ug/L	20		100	70-130			CLS	
Methyl isobutyl ketone (MIBK)	19	5.0	ug/L	20		95	70-130			CLS	
Methyl tertiary butyl ether (MTBE)	3.8	2.0	ug/L	4		96	70-130			CLS	
Methylene chloride	3.8	0.50	ug/L	4		94	70-130			CLS	
Naphthalene	3.7	1.0	ug/L	4		92	70-130			CLS	
n-Butylbenzene	3.0	0.50	ug/L	4		76	70-130			CLS	
n-Propylbenzene	3.2	0.50	ug/L	4		81	70-130			CLS	
o-Xylene	3.3	0.20	ug/L	4		82	70-130			CLS	
p and m-Xylene	3.3	0.30	ug/L	4		81	70-130			CLS	
p-Isopropyltoluene	3.2	0.50	ug/L	4		81	70-130			CLS	
sec-Butylbenzene	3.3	0.50	ug/L	4		82	70-130			CLS	
Styrene	3.5	0.50	ug/L	4		87	70-130			CLS	
tert-Butylbenzene	3.2	0.50	ug/L	4		79	70-130			CLS	
Tetrachloroethene	3.3	0.20	ug/L	4		83	70-130			CLS	
Tetrahydrofuran (THF)	40	10	ug/L	40		100	70-130			CLS	
Toluene	3.4	0.20	ug/L	4		85	70-130			CLS	
trans-1,2-Dichloroethene	3.6	0.10	ug/L	4		91	70-130			CLS	
trans-1,3-Dichloropropene	3.8	0.20	ug/L	4		96	70-130			CLS	
Trichloroethene (TCE)	3.7	0.10	ug/L	4		93	70-130			CLS	
Trichlorofluoromethane	4.0	0.50	ug/L	4		99	70-130			CLS	
Vinyl chloride	4.0	0.20	ug/L	4		100	70-130			CLS	
Surrogate: 1,2-Dichlorobenzene-d4	99	70-130	%	10						CLS	
Surrogate: 4-Bromofluorobenzene	95	70-130	%	10						CLS	
Surrogate: Methyl tertiary butyl ether-d3	101	70-130	%	10						CLS	

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

PWSID: 1720006

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

Batch B4E1276 - EPA 524 Prep

Analyte	Source: 24E1403-03		Prepared: 05/20/24 14:31 Analyzed: 05/20/24 14:31								
	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	5.2	0.20	ug/L	6	<	86	70-130			CLS	
1,1,1-Trichloroethane	5.2	0.20	ug/L	6	<	86	70-130			CLS	
1,1,1,2-Tetrachloroethane	4.8	0.20	ug/L	6	<	80	70-130			CLS	
1,1,2-Trichloroethane	5.2	0.20	ug/L	6	<	87	70-130			CLS	
1,1,2-Trichlorotrifluoroethane	5.4	0.20	ug/L	6	<	90	70-130			CLS	
1,1-Dichloroethane	5.2	0.20	ug/L	6	<	86	70-130			CLS	
1,1-Dichloroethene	5.5	0.50	ug/L	6	<	92	70-130			CLS	
1,1-Dichloropropene	5.4	0.20	ug/L	6	<	90	70-130			CLS	
1,2,3-Trichlorobenzene	4.8	1.0	ug/L	6	<	80	70-130			CLS	
1,2,3-Trichloropropane	4.9	0.50	ug/L	6	<	82	70-130			CLS	
1,2,4-Trichlorobenzene	5.0	0.50	ug/L	6	<	83	70-130			CLS	
1,2,4-Trimethylbenzene	5.1	0.50	ug/L	6	<	86	70-130			CLS	
1,2-Dibromo-3-chloropropane (DBCP)	4.8	2.0	ug/L	6	<	79	70-130			CLS	T5
1,2-Dibromoethane (EDB)	5.0	0.50	ug/L	6	<	83	70-130			CLS	T5
1,2-Dichlorobenzene	5.1	0.20	ug/L	6	<	85	70-130			CLS	
1,2-Dichloroethane	5.2	0.20	ug/L	6	<	86	70-130			CLS	
1,2-Dichloropropane	5.3	0.20	ug/L	6	<	89	70-130			CLS	
1,3,5-Trimethylbenzene	5.1	0.50	ug/L	6	<	85	70-130			CLS	
1,3-Dichlorobenzene	5.1	0.20	ug/L	6	<	86	70-130			CLS	
1,3-Dichloropropane	5.0	0.20	ug/L	6	<	83	70-130			CLS	
1,4-Dichlorobenzene	5.1	0.20	ug/L	6	<	86	70-130			CLS	
2,2-Dichloropropane	5.4	0.50	ug/L	6	<	90	70-130			CLS	
2-Chlorotoluene	4.9	0.50	ug/L	6	<	82	70-130			CLS	
4-Chlorotoluene	5.1	0.50	ug/L	6	<	86	70-130			CLS	
Acetone	51	20	ug/L	60	<	85	70-130			CLS	
Allyl chloride	5.5	0.50	ug/L	6	<	92	70-130			CLS	
Benzene	5.1	0.20	ug/L	6	<	86	70-130			CLS	
Bromobenzene	4.9	0.20	ug/L	6	<	82	70-130			CLS	
Bromochloromethane	4.7	0.50	ug/L	6	<	79	70-130			CLS	
Bromodichloromethane	5.1	0.20	ug/L	6	<	84	70-130			CLS	
Bromoform	4.9	0.50	ug/L	6	<	81	70-130			CLS	
Bromomethane	5.8	1.0	ug/L	6	<	96	70-130			CLS	
Carbon tetrachloride	5.4	0.20	ug/L	6	<	90	70-130			CLS	
Chlorobenzene	5.1	0.20	ug/L	6	<	86	70-130			CLS	
Chlorodibromomethane	4.9	0.50	ug/L	6	<	82	70-130			CLS	
Chloroethane	5.7	0.50	ug/L	6	<	95	70-130			CLS	
Chloroform	5.1	0.10	ug/L	6	<	85	70-130			CLS	
Chloromethane	5.4	1.0	ug/L	6	<	91	70-130			CLS	
cis-1,2-Dichloroethene	5.1	0.20	ug/L	6	<	85	70-130			CLS	
cis-1,3-Dichloropropene	4.8	0.20	ug/L	6	<	79	70-130			CLS	

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

PWSID: 1720006

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Batch B4E1276 - EPA 524 Prep

Matrix Spike (B4E1276-MS1)

Source: 24E1403-03

Prepared: 05/20/24 14:31 Analyzed: 05/20/24 14:31

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	5.2	0.50	ug/L	6	<	87	70-130			CLS	
Dichlorodifluoromethane	5.3	1.0	ug/L	6	<	88	70-130			CLS	
Dichlorofluoromethane	5.5	0.50	ug/L	6	<	92	70-130			CLS	
Ethyl ether	4.9	2.0	ug/L	6	<	81	70-130			CLS	
Ethylbenzene	5.0	0.50	ug/L	6	<	84	70-130			CLS	
Hexachlorobutadiene	5.1	1.0	ug/L	6	<	85	70-130			CLS	
Isopropylbenzene	5.2	0.50	ug/L	6	<	87	70-130			CLS	
Methyl ethyl ketone (MEK)	24	10	ug/L	30	<	79	70-130			CLS	
Methyl isobutyl ketone (MIBK)	25	5.0	ug/L	30	<	83	70-130			CLS	
Methyl tertiary butyl ether (MTBE)	4.9	2.0	ug/L	6	<	82	70-130			CLS	
Methylene chloride	5.2	0.50	ug/L	6	<	86	70-130			CLS	
Naphthalene	4.7	1.0	ug/L	6	<	79	70-130			CLS	
n-Butylbenzene	5.1	0.50	ug/L	6	<	86	70-130			CLS	
n-Propylbenzene	5.1	0.50	ug/L	6	<	85	70-130			CLS	
o-Xylene	4.9	0.20	ug/L	6	<	82	70-130			CLS	
p and m-Xylene	5.0	0.30	ug/L	6	<	83	70-130			CLS	
p-Isopropyltoluene	5.2	0.50	ug/L	6	<	87	70-130			CLS	
sec-Butylbenzene	5.4	0.50	ug/L	6	<	90	70-130			CLS	
Styrene	5.0	0.50	ug/L	6	<	83	70-130			CLS	
tert-Butylbenzene	5.0	0.50	ug/L	6	<	83	70-130			CLS	
Tetrachloroethene	5.3	0.20	ug/L	6	<	88	70-130			CLS	
Tetrahydrofuran (THF)	48	10	ug/L	60	<	80	70-130			CLS	
Toluene	5.1	0.20	ug/L	6	<	85	70-130			CLS	
trans-1,2-Dichloroethene	5.4	0.10	ug/L	6	<	90	70-130			CLS	
trans-1,3-Dichloropropene	5.1	0.20	ug/L	6	<	85	70-130			CLS	
Trichloroethene (TCE)	6.1	0.10	ug/L	6	0.97	86	70-130			CLS	
Trichlorofluoromethane	5.6	0.50	ug/L	6	<	93	70-130			CLS	
Vinyl chloride	5.5	0.20	ug/L	6	<	92	70-130			CLS	
Surrogate: 1,2-Dichlorobenzene-d4	99	70-130	%	10						CLS	
Surrogate: 4-Bromofluorobenzene	96	70-130	%	10						CLS	
Surrogate: Methyl tertiary butyl ether-d3	99	70-130	%	10						CLS	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1276 - EPA 524 Prep

Matrix Spike Dup (B4E1276-MSD1)	Source: 24E1403-03			Prepared: 05/20/24 14:58 Analyzed: 05/20/24 14:58							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	5.2	0.20	ug/L	6	<	87	70-130	1	30	CLS	
1,1,1-Trichloroethane	5.7	0.20	ug/L	6	<	95	70-130	9	30	CLS	
1,1,1,2-Tetrachloroethane	4.9	0.20	ug/L	6	<	82	70-130	2	30	CLS	
1,1,2-Trichloroethane	5.5	0.20	ug/L	6	<	92	70-130	6	30	CLS	
1,1,2-Trichlorotrifluoroethane	5.5	0.20	ug/L	6	<	91	70-130	1	30	CLS	
1,1-Dichloroethane	5.3	0.20	ug/L	6	<	89	70-130	4	30	CLS	
1,1-Dichloroethene	5.4	0.50	ug/L	6	<	91	70-130	2	30	CLS	
1,1-Dichloropropene	5.6	0.20	ug/L	6	<	93	70-130	4	30	CLS	
1,2,3-Trichlorobenzene	4.8	1.0	ug/L	6	<	80	70-130	0.2	30	CLS	
1,2,3-Trichloropropane	5.2	0.50	ug/L	6	<	86	70-130	4	30	CLS	
1,2,4-Trichlorobenzene	5.0	0.50	ug/L	6	<	84	70-130	2	30	CLS	
1,2,4-Trimethylbenzene	5.2	0.50	ug/L	6	<	87	70-130	2	30	CLS	
1,2-Dibromo-3-chloropropane (DBCP)	4.8	2.0	ug/L	6	<	80	70-130	0.8	30	CLS	T5
1,2-Dibromoethane (EDB)	5.1	0.50	ug/L	6	<	85	70-130	3	30	CLS	T5
1,2-Dichlorobenzene	5.1	0.20	ug/L	6	<	86	70-130	0.7	30	CLS	
1,2-Dichloroethane	5.4	0.20	ug/L	6	<	89	70-130	4	30	CLS	
1,2-Dichloropropane	5.0	0.20	ug/L	6	<	84	70-130	6	30	CLS	
1,3,5-Trimethylbenzene	5.3	0.50	ug/L	6	<	88	70-130	5	30	CLS	
1,3-Dichlorobenzene	5.2	0.20	ug/L	6	<	87	70-130	2	30	CLS	
1,3-Dichloropropane	5.2	0.20	ug/L	6	<	87	70-130	5	30	CLS	
1,4-Dichlorobenzene	5.3	0.20	ug/L	6	<	88	70-130	2	30	CLS	
2,2-Dichloropropane	5.3	0.50	ug/L	6	<	89	70-130	2	30	CLS	
2-Chlorotoluene	5.1	0.50	ug/L	6	<	85	70-130	4	30	CLS	
4-Chlorotoluene	5.1	0.50	ug/L	6	<	85	70-130	0.2	30	CLS	
Acetone	50	20	ug/L	60	<	83	70-130	3	30	CLS	
Allyl chloride	5.8	0.50	ug/L	6	<	96	70-130	4	30	CLS	
Benzene	5.3	0.20	ug/L	6	<	89	70-130	4	30	CLS	
Bromobenzene	5.0	0.20	ug/L	6	<	83	70-130	1	30	CLS	
Bromochloromethane	5.2	0.50	ug/L	6	<	86	70-130	9	30	CLS	
Bromodichloromethane	5.2	0.20	ug/L	6	<	87	70-130	3	30	CLS	
Bromoform	5.0	0.50	ug/L	6	<	83	70-130	3	30	CLS	
Bromomethane	6.0	1.0	ug/L	6	<	100	70-130	4	30	CLS	
Carbon tetrachloride	5.6	0.20	ug/L	6	<	93	70-130	3	30	CLS	
Chlorobenzene	5.4	0.20	ug/L	6	<	90	70-130	5	30	CLS	
Chlorodibromomethane	5.2	0.50	ug/L	6	<	87	70-130	6	30	CLS	
Chloroethane	5.7	0.50	ug/L	6	<	95	70-130	0.3	30	CLS	
Chloroform	5.4	0.10	ug/L	6	<	89	70-130	5	30	CLS	
Chloromethane	5.1	1.0	ug/L	6	<	85	70-130	6	30	CLS	
cis-1,2-Dichloroethene	5.3	0.20	ug/L	6	<	89	70-130	4	30	CLS	
cis-1,3-Dichloropropene	5.0	0.20	ug/L	6	<	84	70-130	5	30	CLS	

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

PWSID: 1720006

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Batch B4E1276 - EPA 524 Prep

Analyte	Matrix Spike Dup (B4E1276-MSD1)		Source: 24E1403-03		Prepared: 05/20/24 14:58		Analyzed: 05/20/24 14:58		RPD	RPD Limit	Init.	Qualifiers
	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits					
Dibromomethane	5.3	0.50	ug/L	6	<	88	70-130	0.6	30	CLS		
Dichlorodifluoromethane	5.4	1.0	ug/L	6	<	89	70-130	1	30	CLS		
Dichlorofluoromethane	5.5	0.50	ug/L	6	<	91	70-130	0.6	30	CLS		
Ethyl ether	5.1	2.0	ug/L	6	<	85	70-130	4	30	CLS		
Ethylbenzene	5.3	0.50	ug/L	6	<	89	70-130	6	30	CLS		
Hexachlorobutadiene	5.4	1.0	ug/L	6	<	91	70-130	7	30	CLS		
Isopropylbenzene	5.5	0.50	ug/L	6	<	91	70-130	4	30	CLS		
Methyl ethyl ketone (MEK)	24	10	ug/L	30	<	79	70-130	0.06	30	CLS		
Methyl isobutyl ketone (MIBK)	25	5.0	ug/L	30	<	85	70-130	2	30	CLS		
Methyl tertiary butyl ether (MTBE)	5.0	2.0	ug/L	6	<	83	70-130	2	30	CLS		
Methylene chloride	5.2	0.50	ug/L	6	<	87	70-130	1	30	CLS		
Naphthalene	4.9	1.0	ug/L	6	<	82	70-130	4	30	CLS		
n-Butylbenzene	5.3	0.50	ug/L	6	<	88	70-130	3	30	CLS		
n-Propylbenzene	5.2	0.50	ug/L	6	<	87	70-130	3	30	CLS		
o-Xylene	5.1	0.20	ug/L	6	<	85	70-130	4	30	CLS		
p and m-Xylene	5.4	0.30	ug/L	6	<	91	70-130	8	30	CLS		
p-Isopropyltoluene	5.4	0.50	ug/L	6	<	90	70-130	3	30	CLS		
sec-Butylbenzene	5.5	0.50	ug/L	6	<	92	70-130	2	30	CLS		
Styrene	5.0	0.50	ug/L	6	<	84	70-130	1	30	CLS		
tert-Butylbenzene	5.2	0.50	ug/L	6	<	87	70-130	5	30	CLS		
Tetrachloroethene	5.4	0.20	ug/L	6	<	90	70-130	2	30	CLS		
Tetrahydrofuran (THF)	48	10	ug/L	60	<	80	70-130	0.04	30	CLS		
Toluene	5.1	0.20	ug/L	6	<	85	70-130	0.1	30	CLS		
trans-1,2-Dichloroethene	5.6	0.10	ug/L	6	<	93	70-130	3	30	CLS		
trans-1,3-Dichloropropene	5.2	0.20	ug/L	6	<	86	70-130	1	30	CLS		
Trichloroethene (TCE)	6.4	0.10	ug/L	6	0.97	90	70-130	4	30	CLS		
Trichlorofluoromethane	5.7	0.50	ug/L	6	<	95	70-130	3	30	CLS		
Vinyl chloride	5.7	0.20	ug/L	6	<	95	70-130	3	30	CLS		
Surrogate: 1,2-Dichlorobenzene-d4	100	70-130	%	10						CLS		
Surrogate: 4-Bromofluorobenzene	97	70-130	%	10						CLS		
Surrogate: Methyl tertiary butyl ether-d3	99	70-130	%	10						CLS		

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

Blank (B4E1361-BLK1)

Prepared: 05/22/24 15:55 Analyzed: 05/22/24 15:55

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	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

Blank (B4E1361-BLK1)

Prepared: 05/22/24 15:55 Analyzed: 05/22/24 15:55

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	V1
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	107	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	104	70-130	%	10						AEZ	

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

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

LCS (B4E1361-BS1)

Prepared: 05/22/24 22:14 Analyzed: 05/22/24 22:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	4.3	0.20	ug/L	4		107	70-130			AEZ	
1,1,1-Trichloroethane	4.9	0.20	ug/L	4		123	70-130			AEZ	
1,1,1,2-Tetrachloroethane	4.1	0.20	ug/L	4		103	70-130			AEZ	
1,1,2-Trichloroethane	4.4	0.20	ug/L	4		110	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	4.9	0.20	ug/L	4		123	70-130			AEZ	
1,1-Dichloroethane	4.7	0.20	ug/L	4		118	70-130			AEZ	
1,1-Dichloroethene	4.6	0.50	ug/L	4		116	70-130			AEZ	
1,1-Dichloropropene	4.8	0.20	ug/L	4		119	70-130			AEZ	
1,2,3-Trichlorobenzene	3.7	1.0	ug/L	4		93	70-130			AEZ	
1,2,3-Trichloropropane	4.2	0.50	ug/L	4		105	70-130			AEZ	
1,2,4-Trichlorobenzene	3.5	0.50	ug/L	4		88	70-130			AEZ	
1,2,4-Trimethylbenzene	3.8	0.50	ug/L	4		94	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	3.8	2.0	ug/L	4		95	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	4.1	0.50	ug/L	4		102	70-130			AEZ	T5
1,2-Dichlorobenzene	4.0	0.20	ug/L	4		101	70-130			AEZ	
1,2-Dichloroethane	5.1	0.20	ug/L	4		128	70-130			AEZ	
1,2-Dichloropropane	4.8	0.20	ug/L	4		120	70-130			AEZ	
1,3,5-Trimethylbenzene	3.9	0.50	ug/L	4		98	70-130			AEZ	
1,3-Dichlorobenzene	4.0	0.20	ug/L	4		100	70-130			AEZ	
1,3-Dichloropropane	4.2	0.20	ug/L	4		105	70-130			AEZ	
1,4-Dichlorobenzene	4.0	0.20	ug/L	4		100	70-130			AEZ	
2,2-Dichloropropane	4.8	0.50	ug/L	4		120	70-130			AEZ	
2-Chlorotoluene	3.9	0.50	ug/L	4		97	70-130			AEZ	
4-Chlorotoluene	4.0	0.50	ug/L	4		100	70-130			AEZ	
Acetone	49	20	ug/L	40		122	70-130			AEZ	
Allyl chloride	4.6	0.50	ug/L	4		114	70-130			AEZ	
Benzene	4.7	0.20	ug/L	4		118	70-130			AEZ	
Bromobenzene	3.9	0.20	ug/L	4		98	70-130			AEZ	
Bromochloromethane	4.4	0.50	ug/L	4		111	70-130			AEZ	
Bromodichloromethane	4.6	0.20	ug/L	4		114	70-130			AEZ	
Bromoform	4.0	0.50	ug/L	4		99	70-130			AEZ	
Bromomethane	5.8	1.0	ug/L	4		145	70-130			AEZ	V1
Carbon tetrachloride	4.7	0.20	ug/L	4		118	70-130			AEZ	
Chlorobenzene	4.1	0.20	ug/L	4		103	70-130			AEZ	
Chlorodibromomethane	4.2	0.50	ug/L	4		104	70-130			AEZ	
Chloroethane	5.6	0.50	ug/L	4		139	70-130			AEZ	V1
Chloroform	4.8	0.10	ug/L	4		121	70-130			AEZ	
Chloromethane	4.6	1.0	ug/L	4		115	70-130			AEZ	
cis-1,2-Dichloroethene	4.5	0.20	ug/L	4		113	70-130			AEZ	
cis-1,3-Dichloropropene	3.9	0.20	ug/L	4		98	70-130			AEZ	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

LCS (B4E1361-BS1)

Prepared: 05/22/24 22:14 Analyzed: 05/22/24 22:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	4.5	0.50	ug/L	4		113	70-130			AEZ	
Dichlorodifluoromethane	5.2	1.0	ug/L	4		130	70-130			AEZ	V1
Dichlorofluoromethane	5.1	0.50	ug/L	4		128	70-130			AEZ	
Ethyl ether	4.3	2.0	ug/L	4		107	70-130			AEZ	
Ethylbenzene	4.0	0.50	ug/L	4		101	70-130			AEZ	
Hexachlorobutadiene	3.9	1.0	ug/L	4		98	70-130			AEZ	
Isopropylbenzene	3.9	0.50	ug/L	4		98	70-130			AEZ	
Methyl ethyl ketone (MEK)	23	10	ug/L	20		114	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	21	5.0	ug/L	20		107	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	4.4	2.0	ug/L	4		111	70-130			AEZ	
Methylene chloride	5.0	0.50	ug/L	4		124	70-130			AEZ	
Naphthalene	3.4	1.0	ug/L	4		86	70-130			AEZ	
n-Butylbenzene	3.8	0.50	ug/L	4		95	70-130			AEZ	
n-Propylbenzene	3.9	0.50	ug/L	4		98	70-130			AEZ	
o-Xylene	3.8	0.20	ug/L	4		96	70-130			AEZ	
p and m-Xylene	3.9	0.30	ug/L	4		98	70-130			AEZ	
p-Isopropyltoluene	3.9	0.50	ug/L	4		97	70-130			AEZ	
sec-Butylbenzene	3.9	0.50	ug/L	4		98	70-130			AEZ	
Styrene	3.8	0.50	ug/L	4		94	70-130			AEZ	
tert-Butylbenzene	3.8	0.50	ug/L	4		95	70-130			AEZ	
Tetrachloroethene	4.2	0.20	ug/L	4		105	70-130			AEZ	
Tetrahydrofuran (THF)	44	10	ug/L	40		109	70-130			AEZ	
Toluene	3.8	0.20	ug/L	4		95	70-130			AEZ	
trans-1,2-Dichloroethene	4.6	0.10	ug/L	4		115	70-130			AEZ	
trans-1,3-Dichloropropene	4.2	0.20	ug/L	4		106	70-130			AEZ	
Trichloroethene (TCE)	4.6	0.10	ug/L	4		114	70-130			AEZ	
Trichlorofluoromethane	4.9	0.50	ug/L	4		123	70-130			AEZ	
Vinyl chloride	5.0	0.20	ug/L	4		125	70-130			AEZ	
Surrogate: 1,2-Dichlorobenzene-d4	102	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	97	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	102	70-130	%	10						AEZ	

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Public Health Laboratory, Minnesota Department of Health

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Batch B4E1361 - EPA 524 Prep

Analyte	Result	Reporting Limit	Units	Spike Level	Source: 24E1741-01		Prepared: 05/22/24 21:47		Analyzed: 05/22/24 21:47		Init.	Qualifiers
					Source Result	%REC	%REC Limits	RPD	RPD Limit			
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	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

Analyte	Duplicate (B4E1361-DUP1)		Source: 24E1741-01		Prepared: 05/22/24 21:47		Analyzed: 05/22/24 21:47		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	V1	
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)	0.18	0.10	ug/L		0.17			0.6	30	AEZ		
Trichlorofluoromethane	<	0.50	ug/L	<	<				30	AEZ		
Vinyl chloride	<	0.20	ug/L	<	<				30	AEZ		
Surrogate: 1,2-Dichlorobenzene-d4	108	70-130	%	10						AEZ		
Surrogate: 4-Bromofluorobenzene	97	70-130	%	10						AEZ		
Surrogate: Methyl tertiary butyl ether-d3	103	70-130	%	10						AEZ		

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1720006

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Batch B4E1361 - EPA 524 Prep

Matrix Spike (B4E1361-MS1)		Source: 24E1732-01			Prepared: 05/22/24 16:22 Analyzed: 05/22/24 16:22						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
1,1,1,2-Tetrachloroethane	6.7	0.20	ug/L	6	<	112	70-130			AEZ	
1,1,1-Trichloroethane	8.2	0.20	ug/L	6	<	136	70-130			AEZ	M1
1,1,1,2-Tetrachloroethane	5.9	0.20	ug/L	6	<	98	70-130			AEZ	
1,1,2-Trichloroethane	6.4	0.20	ug/L	6	<	106	70-130			AEZ	
1,1,2-Trichlorotrifluoroethane	7.8	0.20	ug/L	6	<	130	70-130			AEZ	M1
1,1-Dichloroethane	7.4	0.20	ug/L	6	<	123	70-130			AEZ	
1,1-Dichloroethene	7.7	0.50	ug/L	6	<	128	70-130			AEZ	
1,1-Dichloropropene	7.9	0.20	ug/L	6	<	131	70-130			AEZ	M1
1,2,3-Trichlorobenzene	5.8	1.0	ug/L	6	<	97	70-130			AEZ	
1,2,3-Trichloropropane	6.0	0.50	ug/L	6	<	100	70-130			AEZ	
1,2,4-Trichlorobenzene	5.6	0.50	ug/L	6	<	93	70-130			AEZ	
1,2,4-Trimethylbenzene	6.5	0.50	ug/L	6	<	107	70-130			AEZ	
1,2-Dibromo-3-chloropropane (DBCP)	5.6	2.0	ug/L	6	<	93	70-130			AEZ	T5
1,2-Dibromoethane (EDB)	6.2	0.50	ug/L	6	<	104	70-130			AEZ	T5
1,2-Dichlorobenzene	6.0	0.20	ug/L	6	<	100	70-130			AEZ	
1,2-Dichloroethane	7.4	0.20	ug/L	6	<	123	70-130			AEZ	
1,2-Dichloropropane	7.2	0.20	ug/L	6	<	121	70-130			AEZ	
1,3,5-Trimethylbenzene	6.6	0.50	ug/L	6	<	111	70-130			AEZ	
1,3-Dichlorobenzene	6.1	0.20	ug/L	6	<	101	70-130			AEZ	
1,3-Dichloropropane	6.2	0.20	ug/L	6	<	103	70-130			AEZ	
1,4-Dichlorobenzene	6.0	0.20	ug/L	6	<	100	70-130			AEZ	
2,2-Dichloropropane	7.9	0.50	ug/L	6	<	131	70-130			AEZ	M1
2-Chlorotoluene	6.2	0.50	ug/L	6	<	103	70-130			AEZ	
4-Chlorotoluene	6.3	0.50	ug/L	6	<	104	70-130			AEZ	
Acetone	69	20	ug/L	60	<	115	70-130			AEZ	
Allyl chloride	7.3	0.50	ug/L	6	<	121	70-130			AEZ	
Benzene	7.4	0.20	ug/L	6	<	123	70-130			AEZ	
Bromobenzene	5.9	0.20	ug/L	6	<	98	70-130			AEZ	
Bromochloromethane	6.8	0.50	ug/L	6	<	113	70-130			AEZ	
Bromodichloromethane	7.3	0.20	ug/L	6	<	122	70-130			AEZ	
Bromoform	5.7	0.50	ug/L	6	<	96	70-130			AEZ	
Bromomethane	8.7	1.0	ug/L	6	<	145	70-130			AEZ	V1, Z-01
Carbon tetrachloride	7.8	0.20	ug/L	6	<	131	70-130			AEZ	M1
Chlorobenzene	6.4	0.20	ug/L	6	<	106	70-130			AEZ	
Chlorodibromomethane	6.4	0.50	ug/L	6	<	107	70-130			AEZ	
Chloroethane	8.7	0.50	ug/L	6	<	145	70-130			AEZ	V1, Z-01
Chloroform	7.3	0.10	ug/L	6	<	122	70-130			AEZ	
Chloromethane	7.7	1.0	ug/L	6	<	128	70-130			AEZ	
cis-1,2-Dichloroethene	6.8	0.20	ug/L	6	<	113	70-130			AEZ	
cis-1,3-Dichloropropene	6.2	0.20	ug/L	6	<	103	70-130			AEZ	

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Batch B4E1361 - EPA 524 Prep

Analyte	Source: 24E1732-01				Prepared: 05/22/24 16:22 Analyzed: 05/22/24 16:22						
	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Dibromomethane	6.8	0.50	ug/L	6	<	114	70-130			AEZ	
Dichlorodifluoromethane	8.4	1.0	ug/L	6	<	140	70-130			AEZ	V1, Z-01
Dichlorofluoromethane	8.0	0.50	ug/L	6	<	133	70-130			AEZ	M1
Ethyl ether	6.9	2.0	ug/L	6	<	114	70-130			AEZ	
Ethylbenzene	6.5	0.50	ug/L	6	<	109	70-130			AEZ	
Hexachlorobutadiene	6.4	1.0	ug/L	6	<	107	70-130			AEZ	
Isopropylbenzene	6.8	0.50	ug/L	6	<	114	70-130			AEZ	
Methyl ethyl ketone (MEK)	33	10	ug/L	30	<	109	70-130			AEZ	
Methyl isobutyl ketone (MIBK)	33	5.0	ug/L	30	<	109	70-130			AEZ	
Methyl tertiary butyl ether (MTBE)	6.7	2.0	ug/L	6	<	112	70-130			AEZ	
Methylene chloride	7.2	0.50	ug/L	6	<	120	70-130			AEZ	
Naphthalene	5.4	1.0	ug/L	6	<	91	70-130			AEZ	
n-Butylbenzene	6.6	0.50	ug/L	6	<	110	70-130			AEZ	
n-Propylbenzene	6.5	0.50	ug/L	6	<	108	70-130			AEZ	
o-Xylene	6.4	0.20	ug/L	6	<	106	70-130			AEZ	
p and m-Xylene	6.8	0.30	ug/L	6	<	110	70-130			AEZ	
p-Isopropyltoluene	6.7	0.50	ug/L	6	<	111	70-130			AEZ	
sec-Butylbenzene	6.7	0.50	ug/L	6	<	112	70-130			AEZ	
Styrene	6.2	0.50	ug/L	6	<	103	70-130			AEZ	
tert-Butylbenzene	6.4	0.50	ug/L	6	<	106	70-130			AEZ	
Tetrachloroethene	6.9	0.20	ug/L	6	<	116	70-130			AEZ	
Tetrahydrofuran (THF)	67	10	ug/L	60	<	111	70-130			AEZ	
Toluene	9.6	0.20	ug/L	6	3.1	109	70-130			AEZ	
trans-1,2-Dichloroethene	7.3	0.10	ug/L	6	<	121	70-130			AEZ	
trans-1,3-Dichloropropene	6.7	0.20	ug/L	6	<	112	70-130			AEZ	
Trichloroethene (TCE)	7.3	0.10	ug/L	6	<	121	70-130			AEZ	
Trichlorofluoromethane	8.4	0.50	ug/L	6	<	139	70-130			AEZ	M1
Vinyl chloride	8.3	0.20	ug/L	6	<	138	70-130			AEZ	M1
Surrogate: 1,2-Dichlorobenzene-d4	98	70-130	%	10						AEZ	
Surrogate: 4-Bromofluorobenzene	96	70-130	%	10						AEZ	
Surrogate: Methyl tertiary butyl ether-d3	102	70-130	%	10						AEZ	

FINAL REPORT

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

PWSID: 1720006

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.
W8	Sample/sample duplicate relative percent difference exceeded the laboratory acceptance limit.
Z-01	Matrix spike recovery was high. Blank spike and continuing calibration verification standard were also high. Target analyte not detected in sample.

Work Order Comments

SP-03 cancelled, No non-THM detects in VOC samples, Trip Blank not analyzed per 524.3 method. -CTS 05/24/24

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