



# ANALYTICAL SUMMARY REPORT

August 22, 2023

Fort Smith Water and Sewer Dist  
PO Box 7596  
Fort Smith, MT 59035-7596

Work Order: B23080592

Project Name: MT0004765

Energy Laboratories Inc Billings MT received the following 4 samples for Fort Smith Water and Sewer Dist on 8/7/2023 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B23080592-001	TP for Wells 1 and 2	08/07/23 8:30	08/07/23	Drinking Water	Nitrogen, Nitrate + Nitrite 524-Purgeable Organics, SDWA
B23080592-002	TP for Well 3	08/07/23 8:45	08/07/23	Drinking Water	Same As Above
B23080592-003	Trip Blank	08/07/23 8:30	08/07/23	Trip Blank	524-Purgeable Organics, SDWA
B23080592-004	S6	08/07/23 7:45	08/07/23	Drinking Water	Bacteria, Public Water Supply

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:



### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist  
**Project:** MT0004765  
**Client Sample ID:** S6  
**PWS ID:** MT0004765    **Facility ID:** DS001    **Sample Point ID:** SP001  
**Facility Name:** FORT SMITH WATER AND SEWER DISTRICT  
**Lab ID:** B23080592-004A

**Report Date:** 08/22/23  
**Collection Date:** 08/07/23 07:45  
**Received Date:** 08/07/23 10:41  
**Matrix:** Drinking Water  
**Sampled By:** Josh McCraw

**Compliance Sample:** YES    **Sample Type:** RT    **Residual Chlorine (Field):** 0.14    **Res Cl Type:** Free

Analyses	Result	Units	Safe/Unsafe	Qualifier	Method	Analysis Date / By
<b>MICROBIOLOGICAL</b>						
3100 Coliform, Total	Absent	per 100ml	SAFE		A9223 B	08/07/23 12:31 / caa
3014 Coliform, E-Coli	Absent	per 100ml			A9223 B	08/07/23 12:31 / caa

**Comments:** The notation "SAFE" indicates that the water was bacteriologically SAFE when sampled.  
The notation "UNSAFE" indicates that the water was bacteriologically UNSAFE when sampled.

**Qualifiers:**



### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Client Sample ID:** TP for Wells 1 and 2

**PWS #:** MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT

**Facility ID:** TP001

**Sampling Point/Location:** EP502 / TP for Wells 1 and 2

**Project ID:** MT0004765

**Collector's Name:** Josh McCraw

**Contact Phone #:** 406-666-2581

**Compliance Sample:** YES

**Sample Type:** RT

**Lab ID:** B23080592-001

**Report Date:** 08/22/23

**Collection Date:** 08/07/23 08:30

**Date Received:** 08/07/23

**Matrix:** Drinking Water

**Federal ID#:** MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>NUTRIENTS</b>							
1038 Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01	10	E353.2	08/14/23 16:36 / krt
<b>VOLATILE ORGANIC COMPOUNDS</b>							
2990 Benzene	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2993 Bromobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2430 Bromochloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2943 Bromodichloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2942 Bromoform	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2214 Bromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2422 n-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2428 sec-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2426 tert-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2982 Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2989 Chlorobenzene	ND	ug/L		0.50	100	E524.2	08/07/23 14:57 / ams
2944 Chlorodibromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2216 Chloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2941 Chloroform	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2210 Chloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2965 2-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2966 4-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2931 1,2-Dibromo-3-chloropropane	ND	ug/L		1.0	0.2	E524.2	08/07/23 14:57 / ams
2408 Dibromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2968 1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	08/07/23 14:57 / ams
2967 1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2969 1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	08/07/23 14:57 / ams
2212 Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2978 1,1-Dichloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2980 1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2946 1,2-Dibromoethane	ND	ug/L		0.50	0.05	E524.2	08/07/23 14:57 / ams
2977 1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	08/07/23 14:57 / ams
2380 cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	08/07/23 14:57 / ams
2979 trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	08/07/23 14:57 / ams
2983 1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2412 1,3-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2416 2,2-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2410 1,1-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Lab ID:** B23080592-001

**Client Sample ID:** TP for Wells 1 and 2

**Report Date:** 08/22/23

**PWS #:** MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT

**Collection Date:** 08/07/23 08:30

**Facility ID:** TP001

**Date Received:** 08/07/23

**Sampling Point/Location:** EP502 / TP for Wells 1 and 2

**Matrix:** Drinking Water

**Project ID:** MT0004765

**Federal ID#:** MT00005

**Collector's Name:** Josh McCraw

**Contact Phone #:** 406-666-2581

**Compliance Sample:** YES

**Sample Type:** RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>VOLATILE ORGANIC COMPOUNDS</b>							
2413 cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2224 trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2992 Ethylbenzene	ND	ug/L		0.50	700	E524.2	08/07/23 14:57 / ams
2246 Hexachlorobutadiene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2994 Isopropylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2030 p-Isopropyltoluene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2251 Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2964 Methylene chloride	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2248 Naphthalene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2998 n-Propylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2996 Styrene	ND	ug/L		0.50	100	E524.2	08/07/23 14:57 / ams
2986 1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2988 1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2987 Tetrachloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2991 Toluene	ND	ug/L		0.50	1000	E524.2	08/07/23 14:57 / ams
2420 1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2378 1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	08/07/23 14:57 / ams
2981 1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	08/07/23 14:57 / ams
2985 1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2984 Trichloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 14:57 / ams
2218 Trichlorofluoromethane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2414 1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2950 Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	08/07/23 14:57 / ams
2418 1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2424 1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2976 Vinyl chloride	ND	ug/L		0.50	2	E524.2	08/07/23 14:57 / ams
2963 m+p-Xylenes	ND	ug/L		1.0		E524.2	08/07/23 14:57 / ams
2997 o-Xylene	ND	ug/L		0.50		E524.2	08/07/23 14:57 / ams
2955 Xylenes, Total	ND	ug/L		0.50	10000	E524.2	08/07/23 14:57 / ams
Surr: p-Bromofluorobenzene	96.0	%REC			70-130	E524.2	08/07/23 14:57 / ams
Surr: 1,2-Dichloroethane-d4	106	%REC			70-130	E524.2	08/07/23 14:57 / ams
Surr: Toluene-d8	97.0	%REC			70-130	E524.2	08/07/23 14:57 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Lab ID:** B23080592-002

**Client Sample ID:** TP for Well 3

**Report Date:** 08/22/23

**PWS #:** MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT

**Collection Date:** 08/07/23 08:45

**Facility ID:** TP002

**Date Received:** 08/07/23

**Sampling Point/Location:** EP505 / TP for Well 3

**Matrix:** Drinking Water

**Project ID:** MT0004765

**Federal ID#:** MT00005

**Collector's Name:** Josh McCraw

**Contact Phone #:** 406-666-2581

**Compliance Sample:** YES

**Sample Type:** RT

FRDS	Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
					RL	QCL		
<b>NUTRIENTS</b>								
1038	Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01	10	E353.2	08/14/23 16:37 / krt
<b>VOLATILE ORGANIC COMPOUNDS</b>								
2990	Benzene	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2993	Bromobenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2430	Bromochloromethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2943	Bromodichloromethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2942	Bromoform	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2214	Bromomethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2422	n-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2428	sec-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2426	tert-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2982	Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2989	Chlorobenzene	ND	ug/L		0.50	100	E524.2	08/07/23 15:25 / ams
2944	Chlorodibromomethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2216	Chloroethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2941	Chloroform	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2210	Chloromethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2965	2-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2966	4-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2931	1,2-Dibromo-3-chloropropane	ND	ug/L		1.0	0.2	E524.2	08/07/23 15:25 / ams
2408	Dibromomethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2968	1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	08/07/23 15:25 / ams
2967	1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2969	1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	08/07/23 15:25 / ams
2212	Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2978	1,1-Dichloroethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2980	1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2946	1,2-Dibromoethane	ND	ug/L		0.50	0.05	E524.2	08/07/23 15:25 / ams
2977	1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	08/07/23 15:25 / ams
2380	cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	08/07/23 15:25 / ams
2979	trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	08/07/23 15:25 / ams
2983	1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2412	1,3-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2416	2,2-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2410	1,1-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Lab ID:** B23080592-002

**Client Sample ID:** TP for Well 3

**Report Date:** 08/22/23

**PWS #:** MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT

**Collection Date:** 08/07/23 08:45

**Facility ID:** TP002

**Date Received:** 08/07/23

**Sampling Point/Location:** EP505 / TP for Well 3

**Matrix:** Drinking Water

**Project ID:** MT0004765

**Federal ID#:** MT00005

**Collector's Name:** Josh McCraw

**Contact Phone #:** 406-666-2581

**Compliance Sample:** YES

**Sample Type:** RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>VOLATILE ORGANIC COMPOUNDS</b>							
2413 cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2224 trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2992 Ethylbenzene	ND	ug/L		0.50	700	E524.2	08/07/23 15:25 / ams
2246 Hexachlorobutadiene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2994 Isopropylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2030 p-Isopropyltoluene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2251 Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2964 Methylene chloride	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2248 Naphthalene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2998 n-Propylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2996 Styrene	ND	ug/L		0.50	100	E524.2	08/07/23 15:25 / ams
2986 1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2988 1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2987 Tetrachloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2991 Toluene	ND	ug/L		0.50	1000	E524.2	08/07/23 15:25 / ams
2420 1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2378 1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	08/07/23 15:25 / ams
2981 1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	08/07/23 15:25 / ams
2985 1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2984 Trichloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 15:25 / ams
2218 Trichlorofluoromethane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2414 1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2950 Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	08/07/23 15:25 / ams
2418 1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2424 1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2976 Vinyl chloride	ND	ug/L		0.50	2	E524.2	08/07/23 15:25 / ams
2963 m+p-Xylenes	ND	ug/L		1.0		E524.2	08/07/23 15:25 / ams
2997 o-Xylene	ND	ug/L		0.50		E524.2	08/07/23 15:25 / ams
2955 Xylenes, Total	ND	ug/L		0.50	10000	E524.2	08/07/23 15:25 / ams
Surr: p-Bromofluorobenzene	95.0	%REC			70-130	E524.2	08/07/23 15:25 / ams
Surr: 1,2-Dichloroethane-d4	105	%REC			70-130	E524.2	08/07/23 15:25 / ams
Surr: Toluene-d8	96.0	%REC			70-130	E524.2	08/07/23 15:25 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Client Sample ID:** Trip Blank

**PWS #:**                      **Name:** UNKNOWN

**Facility ID:**

**SamplingPoint/Location:**

**Project ID:** MT0004765

**Collector's Name:** ELI

**Contact Phone #:** 406-666-2581

**Compliance Sample:** NO

**Sample Type:**

**Lab ID:** B23080592-003

**Report Date:** 08/22/23

**Collection Date:** 08/07/23 08:30

**Date Received:** 08/07/23

**Matrix:** Trip Blank

**Federal ID#:** MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>VOLATILE ORGANIC COMPOUNDS</b>							
2990 Benzene	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2993 Bromobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2430 Bromochloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2943 Bromodichloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2942 Bromoform	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2214 Bromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2422 n-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2428 sec-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2426 tert-Butylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2982 Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2989 Chlorobenzene	ND	ug/L		0.50	100	E524.2	08/07/23 14:30 / ams
2944 Chlorodibromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2216 Chloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2941 Chloroform	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2210 Chloromethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2965 2-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2966 4-Chlorotoluene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2931 1,2-Dibromo-3-chloropropane	ND	ug/L		1.0	0.2	E524.2	08/07/23 14:30 / ams
2408 Dibromomethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2968 1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	08/07/23 14:30 / ams
2967 1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2969 1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	08/07/23 14:30 / ams
2212 Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2978 1,1-Dichloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2980 1,2-Dichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2946 1,2-Dibromoethane	ND	ug/L		0.50	0.05	E524.2	08/07/23 14:30 / ams
2977 1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	08/07/23 14:30 / ams
2380 cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	08/07/23 14:30 / ams
2979 trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	08/07/23 14:30 / ams
2983 1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2412 1,3-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2416 2,2-Dichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2410 1,1-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2413 cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2224 trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2992 Ethylbenzene	ND	ug/L		0.50	700	E524.2	08/07/23 14:30 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Client Sample ID:** Trip Blank

**PWS #:**                      **Name:** UNKNOWN

**Facility ID:**

**SamplingPoint/Location:**

**Project ID:** MT0004765

**Collector's Name:** ELI

**Contact Phone #:** 406-666-2581

**Compliance Sample:** NO

**Sample Type:**

**Lab ID:** B23080592-003

**Report Date:** 08/22/23

**Collection Date:** 08/07/23 08:30

**Date Received:** 08/07/23

**Matrix:** Trip Blank

**Federal ID#:** MT00005

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
<b>VOLATILE ORGANIC COMPOUNDS</b>							
2246 Hexachlorobutadiene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2994 Isopropylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2030 p-Isopropyltoluene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2251 Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2964 Methylene chloride	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2248 Naphthalene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2998 n-Propylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2996 Styrene	ND	ug/L		0.50	100	E524.2	08/07/23 14:30 / ams
2986 1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2988 1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2987 Tetrachloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2991 Toluene	ND	ug/L		0.50	1000	E524.2	08/07/23 14:30 / ams
2420 1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2378 1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	08/07/23 14:30 / ams
2981 1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	08/07/23 14:30 / ams
2985 1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2984 Trichloroethene	ND	ug/L		0.50	5	E524.2	08/07/23 14:30 / ams
2218 Trichlorofluoromethane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2414 1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2950 Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	08/07/23 14:30 / ams
2418 1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2424 1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2976 Vinyl chloride	ND	ug/L		0.50	2	E524.2	08/07/23 14:30 / ams
2963 m+p-Xylenes	ND	ug/L		1.0		E524.2	08/07/23 14:30 / ams
2997 o-Xylene	ND	ug/L		0.50		E524.2	08/07/23 14:30 / ams
2955 Xylenes, Total	ND	ug/L		0.50	10000	E524.2	08/07/23 14:30 / ams
Surr: p-Bromofluorobenzene	96.0	%REC				70-130 E524.2	08/07/23 14:30 / ams
Surr: 1,2-Dichloroethane-d4	108	%REC				70-130 E524.2	08/07/23 14:30 / ams
Surr: Toluene-d8	98.0	%REC				70-130 E524.2	08/07/23 14:30 / ams

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)





## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Work Order:** B23080592

**Report Date:** 08/19/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E353.2</b>								Analytical Run: FIA203-B_230814B		
<b>Lab ID: ICV</b>		Initial Calibration Verification Standard								08/14/23 13:35
Nitrogen, Nitrate+Nitrite as N		0.565	mg/L	0.010	100	90	110			
<b>Lab ID: CCV</b>								Continuing Calibration Verification Standard		
Nitrogen, Nitrate+Nitrite as N		0.946	mg/L	0.010	95	90	110			08/14/23 16:28
<b>Method: E353.2</b>								Batch: R407055		
<b>Lab ID: MBLK</b>		Method Blank								08/14/23 13:36
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.008						Run: FIA203-B_230814B
<b>Lab ID: LFB</b>								Laboratory Fortified Blank		
Nitrogen, Nitrate+Nitrite as N		1.02	mg/L	0.010	102	90	110			08/14/23 13:38
<b>Lab ID: FILTERLFB</b>								Laboratory Fortified Blank		
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	103	90	110			08/14/23 13:39
<b>Lab ID: B23080585-001CMS</b>								Sample Matrix Spike		
Nitrogen, Nitrate+Nitrite as N		22.1	mg/L	0.10	99	90	110			08/14/23 16:32
<b>Lab ID: B23080585-001CMSD</b>								Sample Matrix Spike Duplicate		
Nitrogen, Nitrate+Nitrite as N		22.2	mg/L	0.10	100	90	110	0.4	10	08/14/23 16:33

**Qualifiers:**

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist

Work Order: B23080592

Report Date: 08/22/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E524.2</b>										Analytical Run: R406639
<b>Lab ID: CCV080723</b>	65 Continuing Calibration Verification Standard									08/07/23 10:07
Benzene		5.19	ug/L	0.50	104	70	130			
Bromobenzene		4.64	ug/L	0.50	93	70	130			
Bromochloromethane		5.36	ug/L	0.50	107	70	130			
Bromodichloromethane		4.41	ug/L	0.50	88	70	130			
Bromoform		4.96	ug/L	0.50	99	70	130			
Bromomethane		4.65	ug/L	0.50	93	70	130			
n-Butylbenzene		4.92	ug/L	0.50	98	70	130			
sec-Butylbenzene		4.85	ug/L	0.50	97	70	130			
tert-Butylbenzene		4.76	ug/L	0.50	95	70	130			
Carbon tetrachloride		4.79	ug/L	0.50	96	70	130			
Chlorobenzene		5.00	ug/L	0.50	100	70	130			
Chlorodibromomethane		4.49	ug/L	0.50	90	70	130			
Chloroethane		5.27	ug/L	0.50	105	70	130			
Chloroform		4.79	ug/L	0.50	96	70	130			
Chloromethane		4.17	ug/L	0.50	83	70	130			
2-Chlorotoluene		4.48	ug/L	0.50	90	70	130			
4-Chlorotoluene		4.22	ug/L	0.50	84	70	130			
1,2-Dibromo-3-chloropropane		5.43	ug/L	1.0	109	70	130			
Dibromomethane		4.28	ug/L	0.50	86	70	130			
1,2-Dichlorobenzene		4.75	ug/L	0.50	95	70	130			
1,3-Dichlorobenzene		4.57	ug/L	0.50	91	70	130			
1,4-Dichlorobenzene		4.59	ug/L	0.50	92	70	130			
Dichlorodifluoromethane		3.84	ug/L	0.50	77	70	130			
1,1-Dichloroethane		5.12	ug/L	0.50	102	70	130			
1,2-Dichloroethane		5.31	ug/L	0.50	106	70	130			
1,2-Dibromoethane		4.93	ug/L	0.50	99	70	130			
1,1-Dichloroethene		5.33	ug/L	0.50	107	70	130			
cis-1,2-Dichloroethene		4.78	ug/L	0.50	96	70	130			
trans-1,2-Dichloroethene		5.21	ug/L	0.50	104	70	130			
1,2-Dichloropropane		4.68	ug/L	0.50	94	70	130			
1,3-Dichloropropane		4.50	ug/L	0.50	90	70	130			
2,2-Dichloropropane		5.51	ug/L	0.50	110	70	130			
1,1-Dichloropropene		5.14	ug/L	0.50	103	70	130			
cis-1,3-Dichloropropene		4.72	ug/L	0.50	94	70	130			
trans-1,3-Dichloropropene		4.73	ug/L	0.50	95	70	130			
Ethylbenzene		4.83	ug/L	0.50	97	70	130			
Hexachlorobutadiene		4.27	ug/L	0.50	85	70	130			
Isopropylbenzene		4.82	ug/L	0.50	96	70	130			
p-Isopropyltoluene		4.68	ug/L	0.50	94	70	130			
Methyl tert-butyl ether (MTBE)		4.68	ug/L	0.50	94	70	130			
Methylene chloride		5.53	ug/L	0.50	111	70	130			
Naphthalene		4.90	ug/L	0.50	98	70	130			
n-Propylbenzene		4.58	ug/L	0.50	92	70	130			
Styrene		5.04	ug/L	0.50	101	70	130			
1,1,1,2-Tetrachloroethane		4.83	ug/L	0.50	97	70	130			

### Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist

Work Order: B23080592

Report Date: 08/22/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E524.2</b>										
Analytical Run: R406639										
<b>Lab ID: CCV080723</b>	65 Continuing Calibration Verification Standard									08/07/23 10:07
1,1,2,2-Tetrachloroethane		4.61	ug/L	0.50	92	70	130			
Tetrachloroethene		4.05	ug/L	0.50	81	70	130			
Toluene		4.36	ug/L	0.50	87	70	130			
1,2,3-Trichlorobenzene		4.57	ug/L	0.50	91	70	130			
1,2,4-Trichlorobenzene		4.86	ug/L	0.50	97	70	130			
1,1,1-Trichloroethane		4.80	ug/L	0.50	96	70	130			
1,1,2-Trichloroethane		4.42	ug/L	0.50	88	70	130			
Trichloroethene		4.18	ug/L	0.50	84	70	130			
Trichlorofluoromethane		4.97	ug/L	0.50	99	70	130			
1,2,3-Trichloropropane		4.62	ug/L	0.50	92	70	130			
1,2,4-Trimethylbenzene		4.56	ug/L	0.50	91	70	130			
1,3,5-Trimethylbenzene		4.37	ug/L	0.50	87	70	130			
Vinyl chloride		4.77	ug/L	0.50	95	70	130			
m+p-Xylenes		10.2	ug/L	1.0	102	70	130			
o-Xylene		4.85	ug/L	0.50	97	70	130			
Trihalomethanes, Total		18.7	ug/L	0.50	93	70	130			
Xylenes, Total		15.0	ug/L	0.50	100	70	130			
Surr: p-Bromofluorobenzene				0.50	96	70	130			
Surr: 1,2-Dichloroethane-d4				0.50	109	70	130			
Surr: Toluene-d8				0.50	95	70	130			

<b>Method: E524.2</b>										
Batch: R406639										
<b>Lab ID: LCS080723</b>	65 Laboratory Control Sample									08/07/23 10:43
						Run: CS5972A.I_230807A				
Benzene		4.65	ug/L	0.50	93	70	130			
Bromobenzene		4.31	ug/L	0.50	86	70	130			
Bromochloromethane		4.82	ug/L	0.50	96	70	130			
Bromodichloromethane		4.39	ug/L	0.50	88	70	130			
Bromoform		4.61	ug/L	0.50	92	70	130			
Bromomethane		4.95	ug/L	0.50	99	70	130			
n-Butylbenzene		4.41	ug/L	0.50	88	70	130			
sec-Butylbenzene		4.66	ug/L	0.50	93	70	130			
tert-Butylbenzene		4.36	ug/L	0.50	87	70	130			
Carbon tetrachloride		4.40	ug/L	0.50	88	70	130			
Chlorobenzene		4.63	ug/L	0.50	93	70	130			
Chlorodibromomethane		3.96	ug/L	0.50	79	70	130			
Chloroethane		5.01	ug/L	0.50	100	70	130			
Chloroform		4.18	ug/L	0.50	84	70	130			
Chloromethane		3.95	ug/L	0.50	79	70	130			
2-Chlorotoluene		4.30	ug/L	0.50	86	70	130			
4-Chlorotoluene		4.01	ug/L	0.50	80	70	130			
1,2-Dibromo-3-chloropropane		4.22	ug/L	1.0	84	70	130			
Dibromomethane		3.91	ug/L	0.50	78	70	130			
1,2-Dichlorobenzene		4.38	ug/L	0.50	88	70	130			
1,3-Dichlorobenzene		4.30	ug/L	0.50	86	70	130			
1,4-Dichlorobenzene		4.33	ug/L	0.50	87	70	130			

**Qualifiers:**

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Fort Smith Water and Sewer Dist

**Work Order:** B23080592

**Report Date:** 08/22/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E524.2</b>										
Batch: R406639										
<b>Lab ID:</b> LCS080723	65 Laboratory Control Sample				Run: CS5972A.I_230807A				08/07/23 10:43	
Dichlorodifluoromethane		3.71	ug/L	0.50	74	70	130			
1,1-Dichloroethane		4.67	ug/L	0.50	93	70	130			
1,2-Dichloroethane		4.84	ug/L	0.50	97	70	130			
1,2-Dibromoethane		4.47	ug/L	0.50	89	70	130			
1,1-Dichloroethene		4.87	ug/L	0.50	97	70	130			
cis-1,2-Dichloroethene		4.36	ug/L	0.50	87	70	130			
trans-1,2-Dichloroethene		4.92	ug/L	0.50	98	70	130			
1,2-Dichloropropane		4.39	ug/L	0.50	88	70	130			
1,3-Dichloropropane		4.09	ug/L	0.50	82	70	130			
2,2-Dichloropropane		4.85	ug/L	0.50	97	70	130			
1,1-Dichloropropene		4.84	ug/L	0.50	97	70	130			
cis-1,3-Dichloropropene		4.22	ug/L	0.50	84	70	130			
trans-1,3-Dichloropropene		4.54	ug/L	0.50	91	70	130			
Ethylbenzene		4.51	ug/L	0.50	90	70	130			
Hexachlorobutadiene		4.07	ug/L	0.50	81	70	130			
Isopropylbenzene		4.43	ug/L	0.50	89	70	130			
p-Isopropyltoluene		4.51	ug/L	0.50	90	70	130			
Methyl tert-butyl ether (MTBE)		4.91	ug/L	0.50	98	70	130			
Methylene chloride		5.26	ug/L	0.50	105	70	130			
Naphthalene		4.74	ug/L	0.50	95	70	130			
n-Propylbenzene		4.25	ug/L	0.50	85	70	130			
Styrene		4.67	ug/L	0.50	93	70	130			
1,1,1,2-Tetrachloroethane		4.53	ug/L	0.50	91	70	130			
1,1,1,2,2-Tetrachloroethane		4.14	ug/L	0.50	83	70	130			
Tetrachloroethene		3.74	ug/L	0.50	75	70	130			
Toluene		4.14	ug/L	0.50	83	70	130			
1,2,3-Trichlorobenzene		4.53	ug/L	0.50	91	70	130			
1,2,4-Trichlorobenzene		4.47	ug/L	0.50	89	70	130			
1,1,1-Trichloroethane		4.36	ug/L	0.50	87	70	130			
1,1,2-Trichloroethane		4.11	ug/L	0.50	82	70	130			
Trichloroethene		4.07	ug/L	0.50	81	70	130			
Trichlorofluoromethane		4.87	ug/L	0.50	97	70	130			
1,2,3-Trichloropropane		4.22	ug/L	0.50	84	70	130			
1,2,4-Trimethylbenzene		4.21	ug/L	0.50	84	70	130			
1,3,5-Trimethylbenzene		4.24	ug/L	0.50	85	70	130			
Vinyl chloride		4.67	ug/L	0.50	93	70	130			
m+p-Xylenes		9.14	ug/L	1.0	91	70	130			
o-Xylene		4.57	ug/L	0.50	91	70	130			
Trihalomethanes, Total		17.1	ug/L	0.50	86	70	130			
Xylenes, Total		13.7	ug/L	0.50	91	70	130			
Surr: p-Bromofluorobenzene				0.50	99	70	130			
Surr: 1,2-Dichloroethane-d4				0.50	108	70	130			
Surr: Toluene-d8				0.50	98	70	130			

**Qualifiers:**

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist

Work Order: B23080592

Report Date: 08/22/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E524.2</b>										
Batch: R406639										
<b>Lab ID: MBLK080723</b>	65	Method Blank								
						Run: CS5972A.I_230807A				08/07/23 11:38
Benzene		ND	ug/L	0.50						
Bromobenzene		ND	ug/L	0.50						
Bromochloromethane		ND	ug/L	0.50						
Bromodichloromethane		ND	ug/L	0.50						
Bromoform		ND	ug/L	0.50						
Bromomethane		ND	ug/L	0.50						
n-Butylbenzene		ND	ug/L	0.50						
sec-Butylbenzene		ND	ug/L	0.50						
tert-Butylbenzene		ND	ug/L	0.50						
Carbon tetrachloride		ND	ug/L	0.50						
Chlorobenzene		ND	ug/L	0.50						
Chlorodibromomethane		ND	ug/L	0.50						
Chloroethane		ND	ug/L	0.50						
Chloroform		ND	ug/L	0.50						
Chloromethane		ND	ug/L	0.50						
2-Chlorotoluene		ND	ug/L	0.50						
4-Chlorotoluene		ND	ug/L	0.50						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	0.50						
1,2-Dichlorobenzene		ND	ug/L	0.50						
1,3-Dichlorobenzene		ND	ug/L	0.50						
1,4-Dichlorobenzene		ND	ug/L	0.50						
Dichlorodifluoromethane		ND	ug/L	0.50						
1,1-Dichloroethane		ND	ug/L	0.50						
1,2-Dichloroethane		ND	ug/L	0.50						
1,2-Dibromoethane		ND	ug/L	0.50						
1,1-Dichloroethene		ND	ug/L	0.50						
cis-1,2-Dichloroethene		ND	ug/L	0.50						
trans-1,2-Dichloroethene		ND	ug/L	0.50						
1,2-Dichloropropane		ND	ug/L	0.50						
1,3-Dichloropropane		ND	ug/L	0.50						
2,2-Dichloropropane		ND	ug/L	0.50						
1,1-Dichloropropene		ND	ug/L	0.50						
cis-1,3-Dichloropropene		ND	ug/L	0.50						
trans-1,3-Dichloropropene		ND	ug/L	0.50						
Ethylbenzene		ND	ug/L	0.50						
Hexachlorobutadiene		ND	ug/L	0.50						
Isopropylbenzene		ND	ug/L	0.50						
p-Isopropyltoluene		ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)		ND	ug/L	0.50						
Methylene chloride		ND	ug/L	0.50						
Naphthalene		ND	ug/L	0.50						
n-Propylbenzene		ND	ug/L	0.50						
Styrene		ND	ug/L	0.50						
1,1,1,2-Tetrachloroethane		ND	ug/L	0.50						

**Qualifiers:**

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



# QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist

Work Order: B23080592

Report Date: 08/22/23

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E524.2</b>										
Batch: R406639										
<b>Lab ID: MBLK080723</b>	65	Method Blank								
Run: CS5972A.I_230807A										
08/07/23 11:38										
1,1,2,2-Tetrachloroethane		ND	ug/L	0.50						
Tetrachloroethene		ND	ug/L	0.50						
Toluene		ND	ug/L	0.50						
1,2,3-Trichlorobenzene		ND	ug/L	0.50						
1,2,4-Trichlorobenzene		ND	ug/L	0.50						
1,1,1-Trichloroethane		ND	ug/L	0.50						
1,1,2-Trichloroethane		ND	ug/L	0.50						
Trichloroethene		ND	ug/L	0.50						
Trichlorofluoromethane		ND	ug/L	0.50						
1,2,3-Trichloropropane		ND	ug/L	0.50						
1,2,4-Trimethylbenzene		ND	ug/L	0.50						
1,3,5-Trimethylbenzene		ND	ug/L	0.50						
Vinyl chloride		ND	ug/L	0.50						
m+p-Xylenes		ND	ug/L	1.0						
o-Xylene		ND	ug/L	0.50						
Trihalomethanes, Total		ND	ug/L	0.50						
Xylenes, Total		ND	ug/L	0.50						
Surr: p-Bromofluorobenzene				0.50	98	70	130			
Surr: 1,2-Dichloroethane-d4				0.50	106	70	130			
Surr: Toluene-d8				0.50	97	70	130			

### Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



# Work Order Receipt Checklist

Fort Smith Water and Sewer Dist

B23080592

Login completed by: Tyler J. Gasser

Date Received: 8/7/2023

Reviewed by: cindy

Received by: lel

Reviewed Date: 8/9/2023

Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	12.2°C On Ice - From Field		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

## Contact and Corrective Action Comments:

None



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### Chain of Custody (COC) & Analytical Request Record

Lab Workorder #: **B23060592**

#### Project Information

Client: Fort Smith Water and Sewer Dist  
 Project: MT0004765  
 Purchase Order:  
 Contact/Phone: Josh McCraw (662) 419-7200

#### Laboratory Use

Quote: N/A  
 BO#: 176346  
 EE#: 52594  
 Turn-Around Time: Standard

Critical Hold Time: 14 Days  
 # of Samples: 3  
 Matrix: Various

#### Comments:

Free Residual Chlorine for Bacti Sample:  
 .14 mg/L

Contact ELI prior to RUSH sample submittal for charges, availability & scheduling. Samples submitted may be subcontracted to other laboratories to complete the test(s) requested; this will be clearly noted on the analytical report.

Sample Identification	Collection Date/Time
1 TP for Wells 1 and 2	8-7-23 8:30
2 TP for Well 3	8-7-23 8:45
3 Trip Blank - 165522 7641723	
4 SG	8-7-23 7:45
5	
6	
7	
8	
9	
10	
11	

#### Analysis Requested

Hold Time (Days)	Analysis Requested		PWS System ID	PWS Facility ID	PWS Sample Pt ID
	28	14			
	FPA/State Compliance		MT0004765	TP001	EP502
	RUSH TAT		MT0004765	TP002	EP505
	Matrix				
	# of Containers				
	Nitrogen, Nitrate + Nitrite (E353.2)	X	MT0004765	DS001	SP001
	524 Purgeable Organics, (E354.2)	X			
	Bacteria (AT203 B)	X			
	Bacteria Public Use	X			

Lab provided preservatives were used  Yes  NO

Sampler Name (if different than Relinquished by):  
 Relinquished by (print): *Josh McCraw* Signature: *Josh McCraw* Date/Time: 8-7-23 10:11  
 Relinquished by (print): *Hyndsi Lebowse* Signature: *Hyndsi Lebowse* Date/Time: 8-7-23 10:41

Sampler Phone:

Date Printed: 08/01/2023

EE: BL - 52594

COC: Page 1 of 1