

Tibble Fork Project Samples

8/31/16



CHEMTECH-FORD
LABORATORIES

9/7/2016

Work Order: 16H1698

**American Fork City
Attn: Jay Brems
270 East 200 North
American Fork, UT 84003**

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Dave Gayer

Dave Gayer, Laboratory Director



Certificate of Analysis

Lab Sample No.: 16H1698-01

Name: American Fork City	Sample Date: 8/31/2016 8:30 AM
Sample Site: FT #16	Receipt Date: 8/31/2016 10:00 AM
Comments:	Sampler: Jay Brems
Sample Matrix: Water	Project:
PO Number:	System No.: UTAH25008
Source Code:	Sample Point:
	Report to State: N

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic								
Turbidity	9.0	5	0.02	NTU	EPA 180.1	08/31/2016 16:00	8/31/2016 16:00	
Metals								
Antimony, Total	0.0005	0.006	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Arsenic, Total	0.0026	0.01	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Barium, Total	0.080	2	0.005	mg/L	EPA 200.7	09/06/2016 12:30	9/6/2016 18:38	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Calcium, Total	54.2		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Cadmium, Total	ND	0.005	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Chromium, Total	0.0005	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Copper, Total	0.0017	1.3	0.0010	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Iron, Total	0.32	0.3	0.02	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Lead, Total	0.0064	0.015	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 245.1	09/06/2016 14:00	9/6/2016 18:11	
Magnesium, Total	17.3		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Manganese, Total	0.032	0.05	0.005	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Molybdenum, Total	0.0012		0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Nickel, Total	0.0048	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Potassium, Total	1.4		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Selenium, Total	0.0006	0.05	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Sodium, Total	8.0		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:38	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:22	
Zinc, Total	0.01	5	0.01	mg/L	EPA 200.7	09/03/2016 09:30	9/7/2016 13:34	



Certificate of Analysis

Lab Sample No.: 16H1698-02

Name: American Fork City	Sample Date: 8/31/2016 8:45 AM
Sample Site: FT #7	Receipt Date: 8/31/2016 10:00 AM
Comments:	Sampler: Jay Brems
Sample Matrix: Water	Project:
PO Number:	System No.: UTAH25008
Source Code:	Sample Point:
	Report to State:

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic								
Turbidity	26	5	0.02	NTU	EPA 180.1	08/31/2016 16:00	8/31/2016 16:00	
Metals								
Antimony, Total	0.0007	0.006	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Arsenic, Total	0.0037	0.01	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Barium, Total	0.086	2	0.005	mg/L	EPA 200.7	09/06/2016 12:30	9/6/2016 18:49	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Calcium, Total	57.4		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Cadmium, Total	0.0003	0.005	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Chromium, Total	0.0010	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Copper, Total	0.0057	1.3	0.0010	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Iron, Total	1.04	0.3	0.02	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Lead, Total	0.0203	0.015	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 245.1	09/06/2016 14:00	9/6/2016 18:11	
Magnesium, Total	17.9		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Manganese, Total	0.108	0.05	0.005	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Molybdenum, Total	0.0011		0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Nickel, Total	0.0060	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Potassium, Total	1.7		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Selenium, Total	0.0008	0.05	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Sodium, Total	8.2		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:49	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:26	
Zinc, Total	0.03	5	0.01	mg/L	EPA 200.7	09/03/2016 09:30	9/7/2016 13:45	



Certificate of Analysis

Lab Sample No.: 16H1698-03

Name: American Fork City	Sample Date: 8/31/2016 9:00 AM
Sample Site: Lower P.I. Pond	Receipt Date: 8/31/2016 10:00 AM
Comments:	Sampler: Jay Brems
Sample Matrix: Water	Project:
PO Number:	System No.: UTAH25008
Source Code:	Report to State:
Sample Point:	

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic								
Turbidity	7.6	5	0.02	NTU	EPA 180.1	08/31/2016 16:00	8/31/2016 16:00	
Metals								
Antimony, Total	0.0005	0.006	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Arsenic, Total	0.0023	0.01	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Barium, Total	0.078	2	0.005	mg/L	EPA 200.7	09/06/2016 12:30	9/6/2016 18:53	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Calcium, Total	53.8		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Cadmium, Total	0.0002	0.005	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Chromium, Total	0.0006	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Copper, Total	0.0016	1.3	0.0010	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Iron, Total	0.20	0.3	0.02	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Lead, Total	0.0039	0.015	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 245.1	09/06/2016 14:00	9/6/2016 18:11	
Magnesium, Total	17.1		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Manganese, Total	0.017	0.05	0.005	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Molybdenum, Total	0.0012		0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Nickel, Total	0.0048	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Potassium, Total	1.4		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Selenium, Total	0.0006	0.05	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Sodium, Total	8.0		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:53	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:34	
Zinc, Total	ND	5	0.01	mg/L	EPA 200.7	09/03/2016 09:30	9/7/2016 13:48	



Certificate of Analysis

Lab Sample No.: 16H1698-04

Name: American Fork City	Sample Date: 8/31/2016 9:15 AM
Sample Site: Mitchell Hollow FT	Receipt Date: 8/31/2016 10:00 AM
Comments:	Sampler: Jay Brems
Sample Matrix: Water	Project:
PO Number:	System No.: UTAH25008
Source Code:	Report to State:
Sample Point:	

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic								
Turbidity	20	5	0.02	NTU	EPA 180.1	08/31/2016 16:00	8/31/2016 16:00	
Metals								
Antimony, Total	0.0006	0.006	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Arsenic, Total	0.0030	0.01	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Barium, Total	0.068	2	0.005	mg/L	EPA 200.7	09/06/2016 12:30	9/6/2016 18:57	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Calcium, Total	59.7		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Cadmium, Total	ND	0.005	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Chromium, Total	0.0005	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Copper, Total	0.0020	1.3	0.0010	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Iron, Total	0.47	0.3	0.02	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Lead, Total	0.0070	0.015	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 245.1	09/06/2016 14:00	9/6/2016 18:11	
Magnesium, Total	16.7		0.2	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Manganese, Total	0.034	0.05	0.005	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Molybdenum, Total	0.0013		0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Nickel, Total	0.0054	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Potassium, Total	1.3		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Selenium, Total	0.0009	0.05	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Sodium, Total	7.2		0.5	mg/L	EPA 200.7	09/03/2016 09:30	9/6/2016 18:57	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	09/03/2016 09:30	9/6/2016 16:38	
Zinc, Total	0.01	5	0.01	mg/L	EPA 200.7	09/03/2016 09:30	9/7/2016 13:52	



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Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.
1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

NR = No analyte requiring this QC element is included in this analytical bracket.

Data Comparisons

Values reported in **RED** exceed Primary Drinking Water standards.
Values reported in **BLUE** exceed Secondary Drinking Water standards.
BLANK values in the MCL column indicate no standard.



Chemtech-Ford, Inc

9632 South 500 West
 Sandy, UT 84070
 801.262.7299 (O)
 866.792.0093 (F)

INVOICE

Invoice Number: **16H1698**
 Invoice Date: 09/07/2016
 Invoice Due 10/07/2016

Invoice To:
Shauna American Fork City 270 East 200 North American Fork, UT 84003

Remit To:
Accounts Receivable Chemtech-Ford Laboratories 9632 South 500 West Sandy, UT 84070

Project:	PO Number:	Received:	Terms:
[none]		08/31/2016	NET 30

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
4	ICP & ICP-MS (Investigative) AP	Water	\$245.00	\$980.00
4	Mercury (T) 245.1	Water	\$0.00	\$0.00
4	Turbidity	Water	\$13.00	\$52.00

Invoice Total:	\$1,032.00
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Samples Included On This Invoice

Work	Sampl	SampleName	Submission Date
16H1698	01	FT #16	08/31/2016
16H1698	02	FT #7	08/31/2016
16H1698	03	Lower P.I. Pond	08/31/2016
16H1698	04	Mitchell Hollow FT	08/31/2016

Project Manager: Jay Brems