



10/18/2016

**Work Order: 16I1374**

**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, Laboratory Director



**CHEMTECH-FORD**  
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### Certificate of Analysis

Lab Sample No.: 16I1374-01

<b>Name:</b> American Fork City	<b>Sample Date:</b> 9/29/2016 8:45 AM
<b>Sample Site:</b> Timp Cave Spring	<b>Receipt Date:</b> 9/29/2016 9:37 AM
<b>Comments:</b>	<b>Sampler:</b> Jay Brems
<b>Sample Matrix:</b> Water	<b>Project:</b>
<b>PO Number:</b>	<b>System No.:</b> UTAH25008
<b>Source Code:</b>	<b>Sample Point:</b>
	<b>Report to State:</b> N

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
<b>Inorganic</b>								
Turbidity	0.08	5	0.02	NTU	EPA 180.1	09/29/2016 14:08	09/29/2016 16:10	
<b>Metals</b>								
Antimony, Total	ND	0.006	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Arsenic, Total	0.0005	0.01	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Barium, Total	0.056	2	0.005	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Cadmium, Total	ND	0.005	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Calcium, Total	70.5		0.2	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Chromium, Total	0.0009	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/07/2016 13:07	
Copper, Total	ND	1.3	0.0010	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Iron, Total	ND	0.3	0.02	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Lead, Total	ND	0.015	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Magnesium, Total	22.2		0.2	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Manganese, Total	ND	0.05	0.005	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Molybdenum, Total	0.0011		0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Nickel, Total	0.0042	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Potassium, Total	0.9		0.5	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Selenium, Total	0.0009	0.05	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Sodium, Total	7.9		0.5	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:08	
Zinc, Total	ND	5	0.01	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:16	



Certificate of Analysis

Lab Sample No.: 16I1374-02

<b>Name:</b> American Fork City	<b>Sample Date:</b> 9/29/2016 9:10 AM
<b>Sample Site:</b> Power House Spring	<b>Receipt Date:</b> 9/29/2016 9:37 AM
<b>Comments:</b>	<b>Sampler:</b> Jay Brems
<b>Sample Matrix:</b> Water	<b>Project:</b>
<b>PO Number:</b>	<b>System No.:</b> UTAH25008
<b>Source Code:</b>	<b>Sample Point:</b>
	<b>Report to State:</b> N

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
<b>Inorganic</b>								
Turbidity	0.38	5	0.02	NTU	EPA 180.1	09/29/2016 14:08	09/29/2016 16:10	
<b>Metals</b>								
Antimony, Total	ND	0.006	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Arsenic, Total	0.0015	0.01	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/07/2016 13:10	
Barium, Total	0.048	2	0.005	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Cadmium, Total	ND	0.005	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Calcium, Total	68.2		0.2	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Chromium, Total	0.0010	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/07/2016 13:10	
Copper, Total	0.0027	1.3	0.0010	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Iron, Total	0.21	0.3	0.02	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Lead, Total	0.0009	0.015	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Magnesium, Total	21.5		0.2	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Manganese, Total	ND	0.05	0.005	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Molybdenum, Total	0.0011		0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Nickel, Total	0.0045	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Potassium, Total	0.9		0.5	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Selenium, Total	0.0041	0.05	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/07/2016 13:10	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Sodium, Total	11.1		0.5	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	10/06/2016 10:09	10/06/2016 18:22	
Zinc, Total	ND	5	0.01	mg/L	EPA 200.7	10/06/2016 14:19	10/13/2016 16:20	





**Certificate of Analysis**

**Lab Sample No.: 16I1374-03**

<b>Name:</b> American Fork City	<b>Sample Date:</b> 9/29/2016 8:55 AM
<b>Sample Site:</b> River	<b>Receipt Date:</b> 9/29/2016 9:37 AM
<b>Comments:</b>	<b>Sampler:</b> Jay Brems
<b>Sample Matrix:</b> Water	<b>Project:</b>
<b>PO Number:</b>	<b>System No.:</b> UTAH25008
<b>Source Code:</b>	<b>Sample Point:</b>
	<b>Report to State:</b> N

Parameter	Sample Result	EPA Max Contaminant Level (MCL)	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
<b>Inorganic</b>								
Turbidity	11	5	0.02	NTU	EPA 180.1	09/29/2016 14:08	09/29/2016 16:10	
<b>Metals</b>								
Antimony, Total	0.0005	0.006	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Arsenic, Total	0.0015	0.01	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Barium, Total	0.060	2	0.005	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Beryllium, Total	ND	0.004	0.001	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Cadmium, Total	ND	0.005	0.0002	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Calcium, Total	71.0		0.2	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Chromium, Total	0.0012	0.1	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Copper, Total	0.0024	1.3	0.0010	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Iron, Total	0.51	0.3	0.02	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Lead, Total	0.0076	0.015	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Magnesium, Total	20.7		0.2	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Manganese, Total	0.019	0.05	0.005	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Mercury, Total	ND	0.002	0.0002	mg/L	EPA 245.1	10/05/2016 13:30	10/06/2016 12:00	
Molybdenum, Total	0.0016		0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Nickel, Total	0.0051	0.1	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Potassium, Total	0.8		0.5	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Selenium, Total	0.0007	0.05	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Silver, Total	ND	0.1	0.0005	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Sodium, Total	4.8		0.5	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	
Thallium, Total	ND	0.002	0.0002	mg/L	EPA 200.8	10/05/2016 10:15	10/07/2016 15:51	
Zinc, Total	0.02	5	0.01	mg/L	EPA 200.7	10/05/2016 10:30	10/06/2016 11:32	



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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.

HB = Recovery for this parameter exceeded the upper acceptance limit. Associated sample(s) were all non-detect and therefore accepted and reported for this parameter.

#### 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.





