



9/2/2016

**Work Order: 16H1293**

**Protect & Preserve American Fork Canyon**

**PO Box 85**

**American Fork, UT 84003**

**markstewartallen@gmail.com**

**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



## Certificate of Analysis

**Lab Sample No.: 16H1293-01**

<b>Name:</b>	<b>Sample Date:</b> 8/22/2016 4:00 PM
<b>Sample Site:</b> Mouth of American Fork River	<b>Receipt Date:</b> 8/23/2016 4:35 PM
<b>Comments:</b>	<b>Sampler:</b> Mark Allen
<b>Sample Matrix:</b> Solid	<b>Project Number:</b>
<b>PO Number:</b>	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
<b>Inorganic</b>							
Total Solids	0.4	0.1	%	SM 2540G	08/26/2016 09:58	8/26/2016 10:00	
<b>Metals</b>							
Arsenic, Total	119	210	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:07	J
Barium, Total	442	10.5	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:04	
Iron, Total	68900	105	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:07	
Lead, Total	1530	105	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:07	
Mercury, Total	0.49	0.43	mg/kg dry	EPA 7471A	08/29/2016 13:00	8/30/2016 16:26	
Manganese, Total	1610	10.5	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:07	
Molybdenum, Total	7.40	21.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:04	J
Tin, Total	44.7	42.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:04	
Strontium, Total	566	21.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:04	
Zinc, Total	2170	21.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:07	



## Certificate of Analysis

**Lab Sample No.: 16H1293-02**

<b>Name:</b>		<b>Sample Date:</b> 8/22/2016 5:00 PM
<b>Sample Site:</b> N. Fork AF River Below Tibble Reservoir		<b>Receipt Date:</b> 8/23/2016 4:35 PM
<b>Comments:</b>		<b>Sampler:</b> Mark Allen
<b>Sample Matrix:</b> Solid		<b>Project Number:</b>
<b>PO Number:</b>		

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
<b>Inorganic</b>							
Total Solids	0.2	0.1	%	SM 2540G	08/26/2016 09:58	8/26/2016 10:00	
<b>Metals</b>							
Arsenic, Total	493	440	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:11	
Barium, Total	2550	22.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:08	
Iron, Total	349000	220	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:11	
Lead, Total	5300	220	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:11	
Mercury, Total	5.76	0.80	mg/kg dry	EPA 7471A	08/29/2016 13:00	8/30/2016 16:26	
Manganese, Total	8610	22.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:11	
Molybdenum, Total	18.0	44.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:08	J
Tin, Total	ND	88.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:08	
Strontium, Total	3000	44.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/31/2016 14:08	
Zinc, Total	9230	44.0	mg/kg dry	EPA 6010B/3050B	08/29/2016 14:29	8/30/2016 16:11	

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: Protect and Preserve American Fork Canyon  
 ADDRESS: \_\_\_\_\_  
 CITY/STATE/ZIP: London Utah  
 PHONE #: 801-787-8025 FAX: \_\_\_\_\_  
 CONTACT: Mark Allen PROJECT: \_\_\_\_\_  
 EMAIL: MarkStewartAllen@gmail.com

BILLING ADDRESS: \_\_\_\_\_  
 BILLING CITY/STATE/ZIP: \_\_\_\_\_  
 PURCHASE ORDER #: Tibble Fork Aug 22nd  
 INVOICE EMAIL ADDRESS: ~~Mark~~ American Fork Canyon@gmail.com



PAID Check Date: 8-24-16  
 Cash Amount: \$320.00  
 VISA/MC Initials: SP

TURNAROUND REQUIRED:\* \_\_\_\_\_  
 \* Expedited turnaround subject to additional charge

Lab Use Only	CLIENT SAMPLE INFORMATION				
H1293	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Field: Residual Chlorine
01	(A) Mouth of American Fork River	8/22	4pm		
02	(B) W. Fork AF River Below Tibble Reservoir	8/22	5pm		
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

TESTS REQUESTED										Bacteria			
6010	Mo, Sr, Pb,									Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (plate Count)	E. Coli Only
	As, Zn, Fe, Mn, Ba,												
	Sr												
	mercury by THO												

Sampled by: [print] MARK ALLEN Sampled by: [signature] \_\_\_\_\_

Special Instructions: \_\_\_\_\_

ON ICE  NOT ON ICE  Temp (C°): 24.3

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Relinquished by: [signature] \_\_\_\_\_ Date/Time 8/23/16 16:35

Received by: [signature] \_\_\_\_\_ Date/Time 8-23-16 16:35

Relinquished by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

CHEMTECH-FORD  
 9632 South 500 West  
 Sandy, UT 84070  
 801.262.7299 PHONE  
 866.792.0093 FAX  
 www.chemtechford.com

Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agrees to pay collection costs and attorney's fees.

Work Order # H1293

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD LABORATORIES

Delivery Method:

- UPS
- USPS
- FedEx
- Chemtech Courier
- Walk-in
- Customer Courier

Receiving Temperature 24.3 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
0102	B							

Sample Condition
(check if yes)
<input type="checkbox"/> Custody Seals
<input checked="" type="checkbox"/> Containers Intact
<input checked="" type="checkbox"/> COC/Labels Agree
<input checked="" type="checkbox"/> Preservation Confirmed
<input checked="" type="checkbox"/> Received on Ice <i>Bw 8/23/16</i>
<input checked="" type="checkbox"/> Correct Containers(s)
<input checked="" type="checkbox"/> Sufficient Sample Volume
<input type="checkbox"/> Headspace Present (VOC)
<input type="checkbox"/> Temperature Blank
<input checked="" type="checkbox"/> Received within Holding Time

- Plastic Containers**
- A- Plastic Unpreserved
  - B- Miscellaneous Plastic
  - C- Cyanide Qt (NaOH)
  - E- Coliform/Ecoli/HPC
  - F- Sulfide Qt (Zn Acetate)
  - L- Mercury 1631
  - M- Metals Pint (HNO3)
  - N- Nutrient Pint (H2SO4)
  - R- Radiological (HNO3)
  - S- Sludge Cups/Tubs
  - Q- Plastic Bag

- Glass Containers**
- D- 625 (Na2S2O3)
  - G- Glass Unpreserved
  - H- HAAs (NH4Cl)
  - J- 508/515/525 (Na2SO3)
  - K- 515.3 Herbicides
  - O- Oil & Grease (HCl)
  - P- Phenols (H2SO4)
  - T- TOC/TOX (H3PO4)
  - U- 531 (MCAA, Na2S2O3)
  - V- 524/THMs (Ascorbic Acid)
  - W- 8260 VOC (1:1 HCl)
  - X- Vial Unpreserved
  - Y- 624/504 (Na2S2O3)
  - Z- Miscellaneous Glass



## Certificate of Analysis

### 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**

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).