

Kevin Okleberry Utah Division of Water Quality PO Box 144870 SLC, UT 84114 TEL: (801) 538-6329

	RE: Tibble Fork Dam
3440 South 700 West	Dear Kevin Okleberry: Lab Set ID: 1608483
Salt Lake City, UT 84119	American West Analytical Laboratories received sample(s) on 8/23/2016 for the analyses presented in the following report.
	American West Analytical Laboratories (AWAL) is accredited by The National
Phone: (801) 263-8686	Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is
Toll Free: (888) 263-8686	state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.
Fax: (801) 263-8687	
e-mail: awal@awal-labs.com	All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any
web: www.awal-labs.com	questions or concerns regarding this report please feel free to call.
	The abbreviation "Surr" found in organic reports indicates a surrogate compound that is
Kyle F. Gross	intentionally added by the laboratory to determine sample injection, extraction, and/or
Laboratory Director	purging efficiency. The "Reporting Limit" found on the report is equivalent to the
Laboratory Director	practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be
Jose Rocha	confused with any regulatory limit. Analytical results are reported to three significant
	figures for quality control and calculation purposes.
QA Officer	ingures for quarty control and carculation purposes.

Thank You,

Approved by: _

Laboratory Director or designee



Inorganic Case Narrative

American West	Client: Contact: Project: Lab Set ID:	Utah Division of Water Quality Kevin Okleberry Tibble Fork Dam 1608483
3440 South 700 West	Sample Receipt Information:	
Salt Lake City, UT 84119	Date of Receipt: Date(s) of Collection: Sample Condition: C-O-C Discrepancies:	8/23/2016 8/23/2016 Intact None
Phone: (801) 263-8686	C-O-C Discrepancies.	None
Toll Free: (888) 263-8686		uirements: The analysis and preparation for the
Fax: (801) 263-8687	samples were performed within the m preserved.	ethod holding times. The samples were properly
e-mail: awal@awal-labs.com	preserved.	
web: www.awal-labs.com	Preparation and Analysis Requirem methods stated on the analytical reports.	ents: The samples were analyzed following the
Kulo E. Gross	Analytical QC Requirements: A requirements were met. All internal stan	ll instrument calibration and calibration check dard recoveries met method criterion.
Kyle F. Gross	Batch QC Requirements: MB, LCS, M	MS. MSD. RPD:
Laboratory Director		
Jose Rocha	Method Blanks (MB): No ta indicating that the procedure wa	rget analytes were detected above reporting limits,
QA Officer	indicating that the procedure wa	is nee nom containmation.
	• -	(LCS): All LCS recoveries were within control ration and analysis were in control.
		Duplicates (MS/MSD): All percent recoveries and ences) were inside established limits, indicating no

Corrective Action: None required.



INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Project:** Tibble Fork Dam Lab Sample ID: 1608483-001 Client Sample ID: 4994980 - SED **Collection Date:** 8/23/2016 1225h **Received Date:** 8/23/2016 1647h

Analytical Results

TCLP METALS Method 1311

Contact: Kevin Okleberry

	TCLP Prep Date:	8/23/2016 2000h	Date	Date	Method	Reporting	Analytical	
3440 South 700 West	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, UT 84119	Arsenic	mg/L	3/24/2016 1443h	8/25/2016 820h	SW6020B	0.0100	0.0362	
	Barium	mg/L	8/24/2016 1443h	8/25/2016 820h	SW6020B	0.0500	1.25	
	Cadmium	mg/L	3/24/2016 1443h	8/25/2016 820h	SW6020B	0.00250	0.0189	
Phone: (801) 263-8686	Chromium	mg/L	8/24/2016 1443h	8/25/2016 820h	SW6020B	0.0100	< 0.0100	
	Lead	mg/L	8/24/2016 1443h	8/25/2016 820h	SW6020B	0.0500	0.214	
Toll Free: (888) 263-8686	Mercury	mg/L	8/24/2016 1500h	8/25/2016 1041h	SW7470A	0.0100	< 0.0100	
Fax: (801) 263-8687	Selenium	mg/L	8/24/2016 1443h	8/25/2016 820h	SW6020B	0.0100	< 0.0100	
e-mail: awal@awal-labs.com	Silver	mg/L	3/24/2016 1443h	8/25/2016 820h	SW6020B	0.0100	< 0.0100	

web: www.awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha **QA** Officer

Client: Project: Tibble Fork Dam Lab Sample ID: 1608483-002 Client Sample ID: 5912840 - SED **Collection Date:** 8/23/2016 1425h **Received Date:**

INORGANIC ANALYTICAL REPORT

Utah Division of Water Quality 8/23/2016 1647h

TCLP METALS Method 1311

Contact: Kevin Okleberry

Analytical Results

TCLP Prep Date: 8/23/2016 2000h Date Date Method Reporting Analytical Compound Units Prepared Analyzed Used Limit Result Oual 3440 South 700 West Salt Lake City, UT 84119 Arsenic mg/L 8/24/2016 1443h 8/25/2016 836h SW6020B 0.0100 < 0.0100 Barium 0.0500 mg/L 8/24/2016 1443h 8/25/2016 836h SW6020B 0.551 Cadmium 0.00250 0.00602 SW6020B mg/L 8/24/2016 1443h 8/25/2016 836h Chromium SW6020B 0.0100 < 0.0100 mg/L 8/24/2016 1443h 8/25/2016 836h Phone: (801) 263-8686 Lead mg/L 8/24/2016 1443h 8/25/2016 836h SW6020B 0.0500 < 0.0500 Toll Free: (888) 263-8686 Mercury 0.0100 < 0.0100 SW7470A mg/L 8/24/2016 1500h 8/25/2016 1048h Fax: (801) 263-8687 Selenium SW6020B 0.0100 < 0.0100 mg/L 8/24/2016 1443h 8/25/2016 836h e-mail: awal@awal-labs.com Silver 8/24/2016 1443h 8/25/2016 836h SW6020B 0.0100 < 0.0100 mg/L

web: www.awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha **QA** Officer

Report Date: 8/25/2016 Page 4 of 11



INORGANIC ANALYTICAL REPORT

Client:Utah Division of Water QualityProject:Tibble Fork DamLab Sample ID:1608483-003Client Sample ID:5912810 - SEDCollection Date:8/23/2016Received Date:8/23/2016

Analytical Results

TCLP METALS Method 1311

Contact: Kevin Okleberry

	TCLP Prep Date:	8/23/2016 2000h	Date	Date	Method	Reporting	Analytical	
3440 South 700 West	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, UT 84119	Arsenic	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0100	0.0157	
	Barium	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0500	0.731	
	Cadmium	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.00250	< 0.00250	
Phone: (801) 263-8686	Chromium	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0100	< 0.0100	
× ,	Lead	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Mercury	mg/L 8	3/24/2016 1500h	8/25/2016 1050h	SW7470A	0.0100	< 0.0100	
Fax: (801) 263-8687	Selenium	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0100	< 0.0100	
e-mail: awal@awal-labs.com	Silver	mg/L 8	3/24/2016 1443h	8/25/2016 839h	SW6020B	0.0100	< 0.0100	

web: www.awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

Report Date: 8/25/2016 Page 5 of 11

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the rule



INORGANIC ANALYTICAL REPORT

Client:Utah Division of Water QualityProject:Tibble Fork DamLab Sample ID:1608483-004Client Sample ID:4994990 - SEDCollection Date:8/23/2016Received Date:8/23/2016

TCLP METALS Method 1311

Contact: Kevin Okleberry

Analytical Results

TCLP Prep Date: 8/23/2016 2000h Date Date Method Reporting Analytical Compound Units Prepared Analyzed Used Limit Result Oual 3440 South 700 West Salt Lake City, UT 84119 Arsenic mg/L 8/24/2016 1443h 8/25/2016 910h SW6020B 0.0100 0.0471 Barium 0.0500 mg/L 8/24/2016 1443h 8/25/2016 910h SW6020B 1.29 Cadmium 0.00250 0.0118 SW6020B mg/L 8/24/2016 1443h 8/25/2016 910h Chromium SW6020B 0.0100 < 0.0100 mg/L 8/24/2016 1443h 8/25/2016 910h Phone: (801) 263-8686 Lead mg/L 8/24/2016 1443h 8/25/2016 910h SW6020B 0.0500 0.412 Toll Free: (888) 263-8686 Mercury 0.0100 < 0.0100 SW7470A mg/L 8/24/2016 1500h 8/25/2016 1046h Fax: (801) 263-8687 Selenium SW6020B 0.0100 < 0.0100 mg/L 8/24/2016 1443h 8/25/2016 910h e-mail: awal@awal-labs.com Silver 8/24/2016 1443h 8/25/2016 910h SW6020B 0.0100 < 0.0100 mg/L

web: www.awal-labs.com

Kyle F. Gross Laboratory Director

> Jose Rocha QA Officer

Report Date: 8/25/2016 Page 6 of 11

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Salt Lake City, UT 84119

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Kyle F. Gross Laboratory Director

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Lab Set II Project:	Utah Division of Water (D: 1608483 Tibble Fork Dam	Quality					Contact: Dept: QC Type	ME	leberry					
Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual

4644 Date Analyzed:	08/25/2016	5.817h										
ICLP Date Prepared:	08/24/2016											
0.409	mg/L	SW6020B	0.00353	0.0100	0.4000	0	102	85 - 115				
0.408	mg/L	SW6020B	0.00394	0.0500	0.4000	0	102	85 - 115				
0.400	mg/L	SW6020B	0.000182	0.00250	0.4000	0	99.9	85 - 115				
0.411	mg/L	SW6020B	0.00325	0.0100	0.4000	0	103	85 - 115				
0.404	mg/L	SW6020B	0.00409	0.0500	0.4000	0	101	85 - 115				
0.404	mg/L	SW6020B	0.00306	0.0100	0.4000	0	101	85 - 115				
0.394	mg/L	SW6020B	0.000369	0.0100	0.4000	0	98.6	85 - 115				
1649 Date Analyzed:	08/25/2016	5 1035h										
LP-7470A Date Prepared:	08/24/2016	5 1500h										
0.00322	mg/L	SW7470A	0.00000559	0.00100	0.003330	0	96.7	80 - 120				
46	0.408 0.400 0.411 0.404 0.404 0.394 649 Date Analyzed: P-7470A Date Prepared:	0.409 mg/L 0.408 mg/L 0.400 mg/L 0.400 mg/L 0.411 mg/L 0.404 mg/L 0.404 mg/L 0.394 mg/L 0.394 mg/L 0.394 mg/L 0.394 mg/L 0.404	0.409 mg/L SW6020B 0.408 mg/L SW6020B 0.400 mg/L SW6020B 0.400 mg/L SW6020B 0.400 mg/L SW6020B 0.411 mg/L SW6020B 0.404 mg/L SW6020B 0.404 mg/L SW6020B 0.404 mg/L SW6020B 0.394 mg/L SW6020B 0.394 mg/L SW6020B 0.404 mg/L SW6020B 0.394 mg/L SW6020B 0.404 mg/L SW6020B 0.394 mg/L SW6020B 0ate Prepared: 08/25/2016 1035h P-7470A Date Prepared: 08/24/2016 1500h	0.409 mg/L SW6020B 0.00353 0.408 mg/L SW6020B 0.00394 0.408 mg/L SW6020B 0.00394 0.400 mg/L SW6020B 0.000182 0.411 mg/L SW6020B 0.00325 0.404 mg/L SW6020B 0.00409 0.404 mg/L SW6020B 0.00306 0.394 mg/L SW6020B 0.00306 0.394 mg/L SW6020B 0.00306 0.394 mg/L SW6020B 0.000369 F49 Date Analyzed: 08/25/2016 1035h P-7470A P-7470A Date Prepared: 08/24/2016 1500h SW6020B	0.409 mg/L SW6020B 0.00353 0.0100 0.408 mg/L SW6020B 0.00394 0.0500 0.400 mg/L SW6020B 0.000182 0.00250 0.411 mg/L SW6020B 0.00325 0.0100 0.404 mg/L SW6020B 0.00325 0.0100 0.404 mg/L SW6020B 0.00306 0.0100 0.404 mg/L SW6020B 0.00306 0.0100 0.394 mg/L SW6020B 0.000369 0.0100 0.394 mg/L SW6020B 0.000369 0.0100 649 Date Analyzed: 08/25/2016 1035h P-7470A Date Prepared: 08/24/2016 1500h	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0.400 mg/L SW6020B 0.00394 0.0500 0.4000 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0.404 mg/L SW6020B 0.00409 0.0500 0.4000 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 649 Date Analyzed: 08/24/2016 1500h <td>0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 0.400 mg/L SW6020B 0.00394 0.0500 0.4000 0 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 649 Date Analyzed: 08/25/2016 1035h E E F P-7470A Date Prepared: 08/24/2016 1500h E E E</td> <td>0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 98.6 649 Date Analyzed: 08/25/2016 1035h E E E F P-7470A Date Prepared: 08/24/2016 1500h E E E E </td> <td>number number num num num</td> <td>0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h E E F 115 P-7470A Date</td> <td>0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00409 0.0500 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00366 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00366 0.0100 0.4000 0 101 85 - 115 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h E E F F P-7470A Date P</td> <td>0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.000369 0.0100 0.4000 0 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h 15 15 15 P-7470A Date Prepared: 08/24/2016 1500h 1500h 15 16</td>	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 0.400 mg/L SW6020B 0.00394 0.0500 0.4000 0 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 649 Date Analyzed: 08/25/2016 1035h E E F P-7470A Date Prepared: 08/24/2016 1500h E E E	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 0 98.6 649 Date Analyzed: 08/25/2016 1035h E E E F P-7470A Date Prepared: 08/24/2016 1500h E E E E	number num num num	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h E E F 115 P-7470A Date	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00409 0.0500 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00366 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00366 0.0100 0.4000 0 101 85 - 115 0.394 mg/L SW6020B 0.000369 0.0100 0.4000 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h E E F F P-7470A Date P	0.409 mg/L SW6020B 0.00353 0.0100 0.4000 0 102 85 - 115 0.408 mg/L SW6020B 0.00394 0.0500 0.4000 0 102 85 - 115 0.400 mg/L SW6020B 0.000182 0.00250 0.4000 0 99.9 85 - 115 0.411 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00325 0.0100 0.4000 0 103 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.00306 0.0100 0.4000 0 101 85 - 115 0.404 mg/L SW6020B 0.000369 0.0100 0.4000 0 98.6 85 - 115 649 Date Analyzed: 08/25/2016 1035h 15 15 15 P-7470A Date Prepared: 08/24/2016 1500h 1500h 15 16

Report Date: 8/25/2016 Page 7 of 11



Salt Lake City, UT 84119

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Kyle F. Gross Laboratory Director

e-mail: awal@awal-labs.com, web: www.awal-labs.com

QC SUMMARY REPORT

Kevin Okleberry

ME

Contact: Dept:

Client:	Utah Division of Water Quality
Lab Set ID:	1608483
Project:	Tibble Fork Dam

Jose Rocha QA Officer

Project: T	ibble Fork Dam						QC Typ	e: MBLK						
Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	MB-44644	Date Analyzed:	08/25/20	16 814h										
Test Code:	6020B-TCLP	Date Prepared:	08/24/20	16 1443h										
Arsenic		< 0.0100	mg/L	SW6020B	0.00353	0.0100								
Barium		< 0.0500	mg/L	SW6020B	0.00394	0.0500								
Cadmium		< 0.00250	mg/L	SW6020B	0.000182	0.00250								
Chromium		< 0.0100	mg/L	SW6020B	0.00325	0.0100								
Lead		< 0.0500	mg/L	SW6020B	0.00409	0.0500								
Selenium		< 0.0100	mg/L	SW6020B	0.00306	0.0100								
Silver		< 0.0100	mg/L	SW6020B	0.000369	0.0100								
Lab Sample ID:	MB-TCLP-44636	Date Analyzed:	08/25/20	16 913h										
Test Code:	6020B-TCLP	Date Prepared:	08/24/20	16 1443h										
Arsenic		< 0.0100	mg/L	SW6020B	0.00353	0.0100								
Barium		< 0.0500	mg/L	SW6020B	0.00394	0.0500								
Cadmium		< 0.00250	mg/L	SW6020B	0.000182	0.00250								
Chromium		< 0.0100	mg/L	SW6020B	0.00325	0.0100								
Lead		< 0.0500	mg/L	SW6020B	0.00409	0.0500								
Selenium		< 0.0100	mg/L	SW6020B	0.00306	0.0100								
Silver		< 0.0100	mg/L	SW6020B	0.000369	0.0100								
Lab Sample ID:	MB-TCLP-44637	Date Analyzed:	08/25/20	16 917h										
Test Code:	6020B-TCLP	Date Prepared:	08/24/20	16 1443h										
Arsenic		< 0.0100	mg/L	SW6020B	0.00353	0.0100								
Barium		< 0.0500	mg/L	SW6020B	0.00394	0.0500								
Cadmium		< 0.00250	mg/L	SW6020B	0.000182	0.00250								
Chromium		< 0.0100	mg/L	SW6020B	0.00325	0.0100								
Lead		< 0.0500	mg/L	SW6020B	0.00409	0.0500								
Selenium		< 0.0100	mg/L	SW6020B	0.00306	0.0100								
Silver		< 0.0100	mg/L	SW6020B	0.000369	0.0100								

Report Date: 8/25/2016 Page 8 of 11



Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687

Kyle F. Gross Laboratory Director

e-mail: awal@awal-labs.com, web: www.awal-labs.com

Jose Rocha QA Officer

QC SUMMARY REPORT

		Reporting	Amount	Spike Ref.	RPD Ref.
Project:	Tibble Fork Dam		QC Type:	MBLK	
Lab Set ID:	1608483		Dept:	ME	
Client:	Utah Division of Water Quality		Contact:	Kevin Okleberry	

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:		Date Analyzed:	08/25/201											
Test Code:	HG-TCLP-7470A	Date Prepared:	08/24/201	6 1500h										
Mercury		< 0.00100	mg/L	SW7470A	0.00000559	0.00100								
Lab Sample ID:	MB-TCLP-44636	Date Analyzed:	08/25/201	6 1055h										
Test Code:	HG-TCLP-7470A	Date Prepared:	08/24/201	6 1500h										
Mercury		< 0.00100	mg/L	SW7470A	0.00000559	0.00100								
Lab Sample ID:	MB-TCLP-44637	Date Analyzed:	08/25/201	6 1057h										
Test Code:	HG-TCLP-7470A	Date Prepared:	08/24/201	6 1500h										
Mercury		< 0.00100	mg/L	SW7470A	0.00000559	0.00100								

Report Date: 8/25/2016 Page 9 of 11



Salt Lake City, UT 84119

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Kyle F. Gross Laboratory Director

e-mail: awal@awal-labs.com, web: www.awal-labs.com

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Jose Rocha **QA** Officer

Utah Division of Water Quality **Client:** Lab Set ID: 1608483

C SUMMARY REI	PORT	
	Contact:	Kevin Okleberry

ME

Dept:

Project: T	ibble Fork Dam		QC Type: MS											
Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: Test Code:	1608483-001AMS 6020B-TCLP	Date Analyzed: Date Prepared:	08/25/20 08/24/20											
Arsenic		0.446	mg/L	SW6020B	0.00353	0.0100	0.4000	0.0362	102	75 - 125				
Barium		1.62	mg/L	SW6020B	0.00394	0.0500	0.4000	1.25	94.2	75 - 125				
Cadmium		0.414	mg/L	SW6020B	0.000182	0.00250	0.4000	0.0189	98.7	75 - 125				
Chromium		0.405	mg/L	SW6020B	0.00325	0.0100	0.4000	0	101	75 - 125				
Lead		0.609	mg/L	SW6020B	0.00409	0.0500	0.4000	0.214	98.7	75 - 125				
Selenium		0.398	mg/L	SW6020B	0.00306	0.0100	0.4000	0	99.5	75 - 125				
Silver		0.389	mg/L	SW6020B	0.000369	0.0100	0.4000	0	97.2	75 - 125				
Lab Sample ID:	1608483-001AMS	Date Analyzed:	08/25/20	16 1043h										
Test Code:	HG-TCLP-7470A	Date Prepared:	08/24/20	16 1500h										
Mercury		0.0336	mg/L	SW7470A	0.0000559	0.0100	0.03330	0	101	80 - 120				

Report Date: 8/25/2016 Page 10 of 11



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Kyle F. Gross Laboratory Director

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Jose Rocha QA Officer

QC SUMMARY REPORT

Client:	Utah Division of Water Quality	Contact:	Kevin Okleberry
Lab Set ID:	1608483	Dept:	ME
Project:	Tibble Fork Dam	QC Type:	MSD

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	1608483-001AMSD	Date Analyzed:	08/25/201											
Test Code:	6020B-TCLP	Date Prepared:	08/24/201	6 1443h										
Arsenic		0.454	mg/L	SW6020B	0.00353	0.0100	0.4000	0.0362	105	75 - 125	0.446	1.97	20	
Barium		1.62	mg/L	SW6020B	0.00394	0.0500	0.4000	1.25	93.9	75 - 125	1.62	0.0626	20	
Cadmium		0.416	mg/L	SW6020B	0.000182	0.00250	0.4000	0.0189	99.3	75 - 125	0.414	0.562	20	
Chromium		0.401	mg/L	SW6020B	0.00325	0.0100	0.4000	0	100	75 - 125	0.405	0.959	20	
Lead		0.607	mg/L	SW6020B	0.00409	0.0500	0.4000	0.214	98.2	75 - 125	0.609	0.314	20	
Selenium		0.401	mg/L	SW6020B	0.00306	0.0100	0.4000	0	100	75 - 125	0.398	0.795	20	
Silver		0.386	mg/L	SW6020B	0.000369	0.0100	0.4000	0	96.4	75 - 125	0.389	0.882	20	
Lab Sample ID:	1608483-001AMSD	Date Analyzed:	08/25/201	6 1044h										
Test Code:	HG-TCLP-7470A	Date Prepared:	08/24/201	6 1500h										
Mercury		0.0340	mg/L	SW7470A	0.0000559	0.0100	0.03330	0	102	80 - 120	0.0336	1.13	20	

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2 Day Rush

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WORK O	RDER Summary				Work Order: 1608483	Page 1 of 1
Client:	Utah Division of Water Quality				Due Date: 8/26/2016	
Client ID:	UTD200		Contact:	Toby Hooker		
Project:	Tibble Fork Dam		QC Leve	l: III	WO Type: Standard	
Comments:	2-Day Rush; QC 3. Other analytical of	on set 1608482 as Next	t Day Rush.;			DP
Sample ID	Client Sample ID	Collected Date	Received Date	Test Code Matrix	Sel Storage	
1608483-001A	4994980 - SED	8/23/2016 1225h	8/23/2016 1647h	1311LM-PR	TCLP	
				3005A-TCLP-PR	TCLP	
				6020B-TCLP	TCLP	
				7 SEL Analytes: AS BA CD CR PB SE AG		
				HG-TCLP-7470A	TCLP	
				1 SEL Analytes: HG	TCLP	
	And the second sec			HG-TCLP-PR		
1608483-002A	5912840 - SED	8/23/2016 1425h	8/23/2016 1647h	1311LM-PR	TCLP	
				3005A-TCLP-PR	TCLP	·····
				6020B-TCLP	TCLP	
		Martan, .		7 SEL Analytes: AS BA CD CR PB SE AC HG-TCLP-7470A	TCLP	
				1 SEL Analytes: HG	1021	
				HG-TCLP-PR	TCLP	
1608483-003A	5912810 - SED	8/23/2016 1445h	8/23/2016 1647h	1311LM-PR	TCLP	
				3005A-TCLP-PR	TCLP	
				6020B-TCLP	TCLP	
				7 SEL Analytes: AS BA CD CR PB SE AC		
				HG-TCLP-7470A	TCLP	
				1 SEL Analytes: HG	TCLP	
1608483-004A				HG-TCLP-PR	TCLP	
	4994990 - SED	8/23/2016 1500h	8/23/2016 1647h	1311LM-PR	TCLP	
				3005A-TCLP-PR	TCLP	
				6020B-TCLP 7 SEL Analytes: AS BA CD CR PB SE A		
				HG-TCLP-7470A	TCLP	
				1 SEL Analytes: HG		
				HG-TCLP-PR	TCLP	

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American West Analytical Laboratories					* 2-Day TCLP - 1608483 CHAIN OF CUSTODY NEXT Day 1608483										
					All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.										
	Fax # (801) 263-8687 Email awal@awal-labs.com				QC Level: Turn Arour									Due Date:	
www.awal-labs.com				1 2 2+333+				1)2	2 3 4 5 Stnd				made, signed reports will be emailed by 5:00 pm on the day they are due.	8 25 10	
Client: DW. Water Quality Address: 195 N. 1950 W.					4	5	,			*				 Report down to the MDL Include EDD: 	Laboratory Use Only
					1 002	hidit				5				 Lab Filter for: Field Filtered For: 	Samples Were:
Contact: Toby Hooker				5	11/115	2			l sed	Inter 1		İ		L) Field Filtered For:	1 Shipped or hand delivered
Phone #: 801-536-4289 Cell #:				4	3 2	12	h		Juto	٤				For Compliance With:	2 Ambient or Chilled 3 Temperature 5.3 °C
Email: tobyhooker @ utah.] =				モン	PA				RCRA CWA	4 Received Broken/Leaking
Project Name: Tibble Greek Fork 7	Dam			ŀ	1	2	Fa	1.5	5	S S		Ø		SDWA ELAP / A2LA NLLAP	(Improperly Sealed) Y
Project #:				4	14-14	- 1		li li	Scan		ľ	Ŧ		Non-Compliance Other:	5 Properly Preserved Y N Checked at
Sampler Name:			Containers	Matrix	1121	55	10	Alka	9	Ś		- vr			bench
Sample ID:	Data Compled	Time	# of Con	Sample Matrix		11	Anion	F	Ц С	F	Ť	Â		Known Hazards &	6 Received Within Holding Times Y N
4994980	Date Sampled	Sampled	-	_	$\frac{1}{2}$		X	Y	1		X	$\frac{1}{\chi}$		Sample Comments	
499 4980-SED	8/23/16	laas		5					X	χ					COC Tape Was:
5912840	8/23/16	1425	1-1		6 7	· X	x	X			X	X			1 Present on Outer Package
5912840 - SED 5912810	8/13/16 8/23/16	<u>1425</u> 1445		S Wy		X		X	X	X	X	\mathbf{x}			2 Unbroken on Outer Package Y N NA
5912810-SED	8/23/16	1445	_	sľ	<u>`</u>		1		X	X	^	×			3 Present on Sample
499 4990	8/23/16	1500	++		XX	×Χ	X	X			X	X			4 Unbroken on Sample
4994990 - SED	8/23/16	1500	2	5					X	X					Y N (NA)
			┝╌┠				-								Discrepanoles Between Sample Labels and COC Record
1							┢								- [×] \™
2															
Relinquished by:	Date:9/13/14	Received by: Signature	AL	11		20	Ь	ZL	n	\sum	Date:	23	11	Special Instructions:	
Print Name: Toby Hooker Relinquished by:	Date:	Print Name: Received by:	De	<u>Mi</u>	52	1	501	N	<u>in</u>		Date:	0.4	17		
Signature Print Name:	Time:	Signature Print Name:									Time:				
Relinquished by: Signature	Date:	Received by: Signature									Date:				
Print Name: Relinquished by:	Time: Date:	Print Name: Received by:									Time: Date:			·	
Signature	Time:	Signature									Time:				
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