



3440 South 700 West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

RE: Gold King Mine Spill

Dear Lenora Sullivan:

Lab Set ID: 1508315

American West Analytical Laboratories received sample(s) on 8/17/2015 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the 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 confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: _____
Laboratory Director or designee



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Jose Rocha
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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Lenora Sullivan
Project: Gold King Mine Spill
Lab Sample ID: 1508315-001
Client Sample ID: SJR @ Mexican Hat
Collection Date: 8/15/2015 1204h
Received Date: 8/17/2015 1528h

Analytical Results

TOTAL METALS

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Aluminum	7429-90-5	mg/kg-dry	8/20/2015 1445h	8/25/2015 1152h	SW6010C	22.5	131	7,480	²
Antimony	7440-36-0	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.380	4.19	< 4.19	U
Arsenic	7440-38-2	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.0848	2.62	2.20	J
Barium	7440-39-3	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	2.83	4.71	213	²
Beryllium	7440-41-7	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.00623	2.09	0.374	J
Cadmium	7440-43-9	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.0176	0.890	0.145	J
Calcium	7440-70-2	mg/kg-dry	8/20/2015 1445h	8/25/2015 1152h	SW6010C	31.0	1,310	13,300	² B1
Chromium	7440-47-3	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	2.54	10.5	8.76	J
Cobalt	7440-48-4	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.159	1.41	2.49	
Copper	7440-50-8	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	1.61	16.2	3.76	J
Iron	7439-89-6	mg/kg-dry	8/20/2015 1445h	8/25/2015 1152h	SW6010C	14.9	65.4	7,210	²
Lead	7439-92-1	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	3.13	6.80	4.75	J
Magnesium	7439-95-4	mg/kg-dry	8/20/2015 1445h	8/25/2015 1212h	SW6010C	13.7	131	3,340	³ B
Manganese	7439-96-5	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.701	4.19	192	²
Mercury	7439-97-6	mg/kg-dry	8/22/2015 1530h	8/25/2015 925h	SW7471B	0.00181	0.0537	< 0.0537	U
Molybdenum	7439-98-7	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.373	20.9	< 20.9	U
Nickel	7440-02-0	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	2.29	20.9	4.50	J
Potassium	7440-09-7	mg/kg-dry	8/20/2015 1445h	8/25/2015 1212h	SW6010C	26.6	131	2,120	B
Selenium	7782-49-2	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.570	8.90	< 8.90	U
Silver	7440-22-4	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.0234	1.57	0.0458	J
Sodium	7440-23-5	mg/kg-dry	8/20/2015 1445h	8/25/2015 1212h	SW6010C	10.1	131	201	B
Thallium	7440-28-0	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.00529	4.19	0.0691	J
Vanadium	7440-62-2	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	0.539	10.5	16.9	
Zinc	7440-66-6	mg/kg-dry	8/20/2015 1445h	8/27/2015 1059h	SW6020A	5.29	52.3	24.5	J

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

³ - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.

B - This analyte was also detected in the method blank below the PQL.

B1 - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

J - Estimated value between the MDL and the reporting limit (PQL).

U - This flag indicates the compound was analyzed for but not detected above the MDL.



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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality

Contact: Lenora Sullivan

Project: Gold King Mine Spill

Lab Sample ID: 1508315-001

Client Sample ID: SJR @ Mexican Hat

Collection Date: 8/15/2015 1204h

Received Date: 8/17/2015 1528h

Analytical Results

Compound	CAS	Units	Date Prepared	Date Analyzed	Method Used	MDL	Reporting Limit	Analytical Result	Qual
Hardness (as CaCO ₃)		mg/L		8/27/2015 1057h	SM2340B	10.0	10.0	47,000	



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-38726	Date Analyzed:	08/27/2015	1001h										
Test Code:	6010C-S	Date Prepared:	08/20/2015	1445h									
Aluminum	91.8	mg/kg	SW6010C	1.72	10.0	100.0	0	91.8	80 - 120				
Calcium	1,160	mg/kg	SW6010C	2.37	100	1,000	0	116	80 - 120				
Iron	93.1	mg/kg	SW6010C	1.14	5.00	100.0	0	93.1	80 - 120				
Magnesium	949	mg/kg	SW6010C	10.5	100	1,000	0	94.9	80 - 120				
Potassium	946	mg/kg	SW6010C	20.3	100	1,000	0	94.6	80 - 120				
Sodium	998	mg/kg	SW6010C	7.71	100	1,000	0	99.8	80 - 120				
Lab Sample ID: LCS-38726	Date Analyzed:	08/27/2015	1039h										
Test Code:	6020-S	Date Prepared:	08/20/2015	1445h									
Antimony	19.3	mg/kg	SW6020A	0.291	3.20	20.00	0	96.7	85 - 115				
Arsenic	20.4	mg/kg	SW6020A	0.0648	2.00	20.00	0	102	85 - 115				
Barium	19.4	mg/kg	SW6020A	2.16	3.60	20.00	0	96.9	85 - 115				
Beryllium	18.6	mg/kg	SW6020A	0.00476	1.60	20.00	0	93.1	85 - 115				
Cadmium	18.8	mg/kg	SW6020A	0.0135	0.680	20.00	0	93.8	85 - 115				
Chromium	20.4	mg/kg	SW6020A	1.94	8.00	20.00	0	102	85 - 115				
Cobalt	19.7	mg/kg	SW6020A	0.122	1.08	20.00	0	98.5	85 - 115				
Copper	20.2	mg/kg	SW6020A	1.23	12.4	20.00	0	101	85 - 115				
Lead	18.9	mg/kg	SW6020A	2.40	5.20	20.00	0	94.6	85 - 115				
Manganese	20.4	mg/kg	SW6020A	0.536	3.20	20.00	0	102	85 - 115				
Molybdenum	19.4	mg/kg	SW6020A	0.285	16.0	20.00	0	96.9	85 - 115				
Nickel	19.7	mg/kg	SW6020A	1.75	16.0	20.00	0	98.7	85 - 115				
Selenium	19.4	mg/kg	SW6020A	0.436	6.80	20.00	0	96.8	85 - 115				
Silver	18.7	mg/kg	SW6020A	0.0179	1.20	20.00	0	93.7	85 - 115				
Thallium	18.7	mg/kg	SW6020A	0.00404	3.20	20.00	0	93.7	85 - 115				
Vanadium	20.2	mg/kg	SW6020A	0.412	8.00	20.00	0	101	85 - 115				
Zinc	103	mg/kg	SW6020A	4.04	40.0	100.0	0	103	85 - 115				



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-38776	Date Analyzed:	08/25/2015	916h										
Test Code: HG-S-7471B	Date Prepared:	08/22/2015	1530h										
Mercury	0.414	mg/kg	SW7471B	0.00135	0.0400	0.4000	0	103	80 - 120				



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
QC Type: 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-38726	Date Analyzed:	08/27/2015	838h										
Test Code:	6010C-S	Date Prepared:	08/20/2015	1445h									
Aluminum	< 10.0	mg/kg	SW6010C	1.72	10.0								U
Calcium	184	mg/kg	SW6010C	2.37	100								B1
Iron	< 5.00	mg/kg	SW6010C	1.14	5.00								U
Magnesium	41.4	mg/kg	SW6010C	10.5	100								JB
Potassium	33.1	mg/kg	SW6010C	20.3	100								JB
Sodium	36.8	mg/kg	SW6010C	7.71	100								JB
Lab Sample ID: MB-38726	Date Analyzed:	08/27/2015	1032h										
Test Code:	6020-S	Date Prepared:	08/20/2015	1445h									
Antimony	< 0.400	mg/kg	SW6020A	0.0364	0.400								U
Arsenic	< 0.250	mg/kg	SW6020A	0.00810	0.250								U
Barium	< 0.450	mg/kg	SW6020A	0.270	0.450								U
Beryllium	< 0.200	mg/kg	SW6020A	0.000595	0.200								U
Cadmium	< 0.0850	mg/kg	SW6020A	0.00168	0.0850								U
Chromium	< 1.00	mg/kg	SW6020A	0.243	1.00								U
Cobalt	< 0.135	mg/kg	SW6020A	0.0152	0.135								U
Copper	< 1.55	mg/kg	SW6020A	0.154	1.55								U
Lead	< 0.650	mg/kg	SW6020A	0.300	0.650								U
Manganese	< 0.400	mg/kg	SW6020A	0.0670	0.400								U
Molybdenum	< 2.00	mg/kg	SW6020A	0.0356	2.00								U
Nickel	< 2.00	mg/kg	SW6020A	0.219	2.00								U
Selenium	< 0.850	mg/kg	SW6020A	0.0545	0.850								U
Silver	< 0.150	mg/kg	SW6020A	0.00224	0.150								U
Thallium	< 0.400	mg/kg	SW6020A	0.000505	0.400								U
Vanadium	< 1.00	mg/kg	SW6020A	0.0515	1.00								U
Zinc	< 5.00	mg/kg	SW6020A	0.505	5.00								U



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
QC Type: 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-38776	Date Analyzed:	08/25/2015	915h										
Test Code: HG-S-7471B	Date Prepared:	08/22/2015	1530h										
Mercury	< 0.0400	mg/kg	SW7471B	0.00135	0.0400								U

B - This analyte was also detected in the method blank below the PQL.

B1 - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
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: 1508315-001AMS													
Date Analyzed:	08/25/2015 1154h												
Test Code:	6010C-S												
Date Prepared:	08/20/2015 1445h												
Aluminum	7,120	mg/kg-dry	SW6010C	22.9	133	133.3	7480	-275	75 - 125				2
Calcium	13,200	mg/kg-dry	SW6010C	31.6	1,330	1,333	13300	-5.65	75 - 125				2
Iron	6,510	mg/kg-dry	SW6010C	15.2	66.7	133.3	7210	-528	75 - 125				2
Lab Sample ID: 1508315-001AMS													
Date Analyzed:	08/25/2015 1215h												
Test Code:	6010C-S												
Date Prepared:	08/20/2015 1445h												
Magnesium	4,330	mg/kg-dry	SW6010C	14.0	133	1,333	3340	74.1	75 - 125				3
Potassium	3,150	mg/kg-dry	SW6010C	27.1	133	1,333	2120	77.0	75 - 125				
Sodium	1,410	mg/kg-dry	SW6010C	10.3	133	1,333	201	90.9	75 - 125				
Lab Sample ID: 1508315-001AMS													
Date Analyzed:	08/27/2015 1102h												
Test Code:	6020-S												
Date Prepared:	08/20/2015 1445h												
Antimony	25.9	mg/kg-dry	SW6020A	0.388	4.27	26.66	0	97.2	75 - 125				
Arsenic	27.9	mg/kg-dry	SW6020A	0.0864	2.67	26.66	2.2	96.4	75 - 125				
Barium	206	mg/kg-dry	SW6020A	2.88	4.80	26.66	213	-26.6	75 - 125				2
Beryllium	26.3	mg/kg-dry	SW6020A	0.00635	2.13	26.66	0.374	97.1	75 - 125				
Cadmium	26.2	mg/kg-dry	SW6020A	0.0180	0.906	26.66	0.145	97.7	75 - 125				
Chromium	34.0	mg/kg-dry	SW6020A	2.59	10.7	26.66	8.76	94.8	75 - 125				
Cobalt	28.2	mg/kg-dry	SW6020A	0.162	1.44	26.66	2.49	96.3	75 - 125				
Copper	30.2	mg/kg-dry	SW6020A	1.64	16.5	26.66	3.76	99.0	75 - 125				
Lead	30.5	mg/kg-dry	SW6020A	3.19	6.93	26.66	4.75	96.6	75 - 125				
Manganese	201	mg/kg-dry	SW6020A	0.715	4.27	26.66	192	36.2	75 - 125				2
Molybdenum	27.0	mg/kg-dry	SW6020A	0.380	21.3	26.66	0	101	75 - 125				
Nickel	30.5	mg/kg-dry	SW6020A	2.33	21.3	26.66	4.5	97.6	75 - 125				
Selenium	26.4	mg/kg-dry	SW6020A	0.581	9.06	26.66	0	98.9	75 - 125				
Silver	26.0	mg/kg-dry	SW6020A	0.0239	1.60	26.66	0.0458	97.5	75 - 125				
Thallium	26.0	mg/kg-dry	SW6020A	0.00539	4.27	26.66	0.0691	97.2	75 - 125				
Vanadium	41.8	mg/kg-dry	SW6020A	0.549	10.7	26.66	16.9	93.7	75 - 125				
Zinc	148	mg/kg-dry	SW6020A	5.39	53.3	133.3	24.5	92.5	75 - 125				



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
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: 1508315-001AMS	Date Analyzed:	08/25/2015	927h										
Test Code: HG-S-7471B	Date Prepared:	08/22/2015	1530h										
Mercury	0.488	mg/kg-dry	SW7471B	0.00156	0.0463	0.4632	0	105	80 - 120				

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

³ - Matrix spike recoveries and/or high RPDs indicate suspected sample non-homogeneity. The method is in control as indicated by the LCS.



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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
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: 1508315-001AMSD													
Date Analyzed:	08/25/2015 1156h												
Test Code:	6010C-S												
Date Prepared:	08/20/2015 1445h												
Aluminum	7,390	mg/kg-dry	SW6010C	21.9	128	127.6	7480	-76.9	75 - 125	7120	3.70	20	2
Calcium	13,900	mg/kg-dry	SW6010C	30.2	1,280	1,276	13300	44.3	75 - 125	13200	4.72	20	2
Iron	6,880	mg/kg-dry	SW6010C	14.5	63.8	127.6	7210	-258	75 - 125	6510	5.60	20	2
Lab Sample ID: 1508315-001AMSD													
Date Analyzed:	08/25/2015 1217h												
Test Code:	6010C-S												
Date Prepared:	08/20/2015 1445h												
Magnesium	4,560	mg/kg-dry	SW6010C	13.4	128	1,276	3340	95.5	75 - 125	4330	5.18	20	
Potassium	3,260	mg/kg-dry	SW6010C	25.9	128	1,276	2120	89.4	75 - 125	3150	3.53	20	
Sodium	1,400	mg/kg-dry	SW6010C	9.84	128	1,276	201	94.2	75 - 125	1410	0.660	20	
Lab Sample ID: 1508315-001AMSD													
Date Analyzed:	08/27/2015 1115h												
Test Code:	6020-S												
Date Prepared:	08/20/2015 1445h												
Antimony	25.0	mg/kg-dry	SW6020A	0.371	4.08	25.51	0	98.0	75 - 125	25.9	3.64	20	
Arsenic	27.3	mg/kg-dry	SW6020A	0.0827	2.55	25.51	2.2	98.4	75 - 125	27.9	2.17	20	
Barium	243	mg/kg-dry	SW6020A	2.76	4.59	25.51	213	118	75 - 125	206	16.6	20	
Beryllium	25.4	mg/kg-dry	SW6020A	0.00607	2.04	25.51	0.374	98.1	75 - 125	26.3	3.37	20	
Cadmium	25.4	mg/kg-dry	SW6020A	0.0172	0.867	25.51	0.145	98.9	75 - 125	26.2	3.10	20	
Chromium	34.5	mg/kg-dry	SW6020A	2.48	10.2	25.51	8.76	101	75 - 125	34	1.23	20	
Cobalt	26.9	mg/kg-dry	SW6020A	0.155	1.38	25.51	2.49	95.7	75 - 125	28.2	4.65	20	
Copper	28.9	mg/kg-dry	SW6020A	1.57	15.8	25.51	3.76	98.7	75 - 125	30.2	4.14	20	
Lead	29.8	mg/kg-dry	SW6020A	3.06	6.63	25.51	4.75	98.0	75 - 125	30.5	2.42	20	
Manganese	216	mg/kg-dry	SW6020A	0.684	4.08	25.51	192	94.3	75 - 125	201	6.91	20	
Nickel	29.5	mg/kg-dry	SW6020A	2.23	20.4	25.51	4.5	98.1	75 - 125	30.5	3.28	20	
Selenium	25.5	mg/kg-dry	SW6020A	0.556	8.67	25.51	0	99.9	75 - 125	26.4	3.39	20	
Silver	25.2	mg/kg-dry	SW6020A	0.0229	1.53	25.51	0.0458	98.4	75 - 125	26	3.48	20	
Thallium	25.0	mg/kg-dry	SW6020A	0.00515	4.08	25.51	0.0691	97.9	75 - 125	26	3.74	20	
Vanadium	42.4	mg/kg-dry	SW6020A	0.526	10.2	25.51	16.9	100	75 - 125	41.8	1.37	20	
Zinc	138	mg/kg-dry	SW6020A	5.15	51.0	127.6	24.5	89.3	75 - 125	148	6.56	20	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1508315
Project: Gold King Mine Spill

Contact: Lenora Sullivan
Dept: ME
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: 1508315-001AMSD	Date Analyzed:	08/27/2015	1345h										
Test Code:	6020-S	Date Prepared:	08/20/2015	1445h									
Molybdenum	24.1	mg/kg-dry	SW6020A	0.363	20.4	25.51	0	94.5	75 - 125	27	11.4	20	
Lab Sample ID: 1508315-001AMSD	Date Analyzed:	08/25/2015	929h										
Test Code:	HG-S-7471B	Date Prepared:	08/22/2015	1530h									
Mercury	0.545	mg/kg-dry	SW7471B	0.00181	0.0537	0.5373	0	101	80 - 120	0.488	11.1	20	

² - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Correction made to collection time -RW

WORK ORDER Summary

Work Order: **1508315** Page 1 of 1

Client: Utah Division of Water Quality

Due Date: 8/31/2015

Client ID: UTD200

Contact: Lenora Sullivan

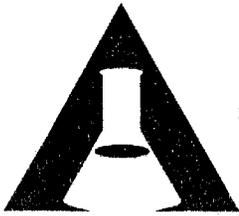
Project: Gold King Mine Spill

QC Level: II+ MDL

WO Type: Standard

Comments: QC2+. Evaluated down to the MDL. Include EDD. CC: Jim Harris and Trisha Johnson;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1508315-001A	SJR @ Mexican Hat	8/15/2015 1204h	8/17/2015 1528h	3051A-ICPMS-PR	Solid	<input type="checkbox"/>	DF-Metals
				6010C-S		<input checked="" type="checkbox"/>	DF-Metals
				<i>6 SEL Analytes: AL CA FE MG K NA</i>			
				6020-S		<input checked="" type="checkbox"/>	DF-Metals
				<i>17 SEL Analytes: SB AS BA BE CD CR CO CU PB MN MO NI SE AG TL V ZN</i>			
				HARD-2340B		<input type="checkbox"/>	DF-Metals
				HG-S-7471B		<input type="checkbox"/>	DF-Metals
				HG-S-PR-B		<input type="checkbox"/>	DF-Metals
				PMOIST		<input type="checkbox"/>	DF-Metals



**AMERICAN WEST
ANALYTICAL LABORATORIES**

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CHAIN OF CUSTODY

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.

1508316

AWAL LAB SAMPLE SET #
PAGE _____ OF _____

CLIENT: DIVISION OF WATER QUALITY
 ADDRESS: 195 N 1950 W
 CONTACT: JAMES HARRIS
 PHONE #: 801 536 4360 CELL #:
 EMAIL: lenora@utah.gov / james.harris@utah.gov
 PROJECT NAME: GULF KING MINE SPILL
 PROJECT #:
 PO #:
 SAMPLER NAME:

QC LEVEL:		TURN AROUND TIME:						UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		DUE DATE:	
1	2	3	3+	1	2	3	4	5	STND		
		(2)								<input type="checkbox"/> REPORT DOWN TO THE MDL <input type="checkbox"/> INCLUDE EDD: <input type="checkbox"/> LAB FILTER FOR: <input type="checkbox"/> FIELD FILTERED FOR:	
										LABORATORY USE ONLY SAMPLES WERE: 1 SHIPPED OR HAND DELIVERED 2 AMBIENT OR CHILLED 3 TEMPERATURE <u>4.5</u> °C 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 5 PROPERLY PRESERVED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N CHECKED AT BENCH 6 RECEIVED WITHIN HOLDING TIMES <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
										FOR COMPLIANCE WITH: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> NON-COMPLIANCE <input type="checkbox"/> OTHER:	
										KNOWN HAZARDS & SAMPLE COMMENTS 1508315 - std	
										COC TAPE WAS: 1 PRESENT ON OUTER PACKAGE <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA 2 UNBROKEN ON OUTER PACKAGE <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA 3 PRESENT ON SAMPLE <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA 4 UNBROKEN ON SAMPLE <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA 5/17/15	
										DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

# OF CONTAINERS	SAMPLE MATRIX	TOTAL METALS	FILTERED METALS	CHEMISTS	NUTRIENT
4	W	X	X	X	X
4	W	X	X	X	X
4	W	X	X	X	X
4	W	X	X	X	X
1	W	X			

SAMPLE ID:	DATE SAMPLED	TIME SAMPLED	# OF CONTAINERS	SAMPLE MATRIX	TOTAL METALS	FILTERED METALS	CHEMISTS	NUTRIENT
1 4957000 - SJR @ US 160	8/16	0915	4	W	X	X	X	X
2 4953990 - SJR @ SAND IS.	"	1002	4	W	X	X	X	X
3 4953250 - SJR @ MONTICUMA CR	"	1106	4	W	X	X	X	X
4 4953000 - SJR @ MEXICAN HAT	"	1158	4	W	X	X	X	X
5 SJR @ CLAY HILLS	"	1446	4	W	X	X	X	X
6 SJR @ MEXICAN HAT	8/17/15	1205 12:04	1	W	X			

Sample collection time updated 8/19/2015 per email from Trisha Johnson -RW

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	SPECIAL INSTRUCTIONS:
<u>James Harris</u>	8/14/15	<u>Elma Harper</u>	8/17/15	Samplers no field filtered METALS: Al, Ca, Fe, K, Mg, Na Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Ag, Se, Ti, V, Zn Hg
PRINT NAME: JAMES HARRIS	TIME: 1528	PRINT NAME: Elma Harper	TIME: 1528	
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:	
SIGNATURE:	TIME:	SIGNATURE:	TIME:	
PRINT NAME:	DATE:	PRINT NAME:	DATE:	
SIGNATURE:	TIME:	SIGNATURE:	TIME:	