

EXHIBIT 1

Animas River Stakeholders Group

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Animas and Florida River Basins

3a. Mainstem of the Animas River, including wetlands, from a point immediately below the confluence with Maggie Gulch to immediately above the confluence with Cement Creek.							
COSJAF03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1*	Temperature °C	CS-I	CS-I	Aluminum	750(T) 750(T)	
	Recreation E		acute	chronic	Arsenic	340 100(T)	
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium	---	
Other:		D.O. (spawning)	---	7.0	Cadmium	SSE* SSE*	
<p>*Classification: Aquatic life indicator goal: Brook Trout</p> <p>*Cadmium(acute) =(1.136672-ln(hardness)*0.041838)*e^(0.9789*ln(hardness)-3.866)</p> <p>*Cadmium(chronic) =(1.101672-ln(hardness)*0.041838)*e^(0.7977*ln(hardness)-3.909) – except for April where Cadmium (chronic) = 3.5 and May where Cadmium (chronic) = 2.2.</p> <p>Cadmium(chronic) = Standards are listed on Table 1.</p> <p>*Manganese(chronic) = Standards are listed on Table 1.</p> <p>*Zinc(acute) = Standards are listed on Table 1.</p> <p>*Zinc(chronic) = Standards are listed on Table 1.</p>		pH	6.5 - 9.0	---	TVS(tr)	varies*	
		chlorophyll a (mg/m2)	---	---	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III	---	100(T)
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	1000(T)
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	---	varies*
		Chlorine	0.019	0.011	Mercury	---	0.01(t)
		Cyanide	0.005	---	Molybdenum	---	160(T)
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	---	Selenium	TVS	TVS
		Phosphorus	---	---	Silver	TVS	TVS(tr)
Sulfate	---	---	Uranium	---	---		
Sulfide	---	0.002	Zinc	varies*	varies*		

3c. Arrastra Gulch including all tributaries and wetlands from the source to the confluence with the Animas River.							
COSJAF03C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT	acute	chronic	
UP	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Aluminum	---	
	Recreation E		acute	chronic	Arsenic	340 100(T)	
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium	---	
Other:		D.O. (spawning)	---	7.0	Cadmium	SSE* SSE*	
<p>*Cadmium(acute) =(1.136672-ln(hardness)*0.041838)*e^(0.9789*ln(hardness)-3.866)</p> <p>*Cadmium(chronic) =(1.101672-ln(hardness)*0.041838)*e^(0.7977*ln(hardness)-3.909)</p>		pH	6.5 - 9.0	---	TVS(tr)	TVS	
		chlorophyll a (mg/m2)	---	---	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III	---	100(T)
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	1000(T)
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Mercury	---	0.01(t)
		Cyanide	0.005	---	Molybdenum	---	160(T)
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	---	Silver	TVS	TVS(tr)
Sulfate	---	---	Uranium	---	---		
Sulfide	---	0.002	Zinc	TVS	TVS		

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Animas and Florida River Basins

4a. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Mineral Creek to a point immediately above the confluence with Deer Park Creek.

COSJAF04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Cold 2*	Temperature °C	CS-I	CS-I	Aluminum	varies*	varies*
	Recreation E		acute	chronic	Arsenic	340	100(T)
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium	---	---
Other:		D.O. (spawning)	---	7.0	Cadmium	SSE*	SSE*
		pH	varies*	---		TVS(tr)	TVS
*Classification: Aquatic life indicator goal: Brook Trout		chlorophyll a (mg/m2)	---	---	Chromium III	TVS	TVS
*Aluminum(acute) = Standards are listed on Table 1.		E. Coli (per 100 mL)	---	126	Chromium III	---	100(T)
*Aluminum(chronic) = Standards are listed on Table 1.					Chromium VI	TVS	TVS
*Iron(chronic) = Standards are listed on Table 1.		Inorganic (mg/L)			Copper	TVS	TVS
*Cadmium(acute)=(1.136672-ln(hardness)*0.041838)*e^(0.9789*ln(hardness)-3.866)			acute	chronic	Iron	---	varies*
*Cadmium(chronic)=(1.101672-ln(hardness)*0.041838)*e^(0.7977*ln(hardness)-3.909)		Ammonia	TVS	TVS	Lead	TVS	TVS
*Zinc(acute) = Standards are listed on Table 1.		Boron	---	0.75	Manganese	TVS	TVS
*Zinc(chronic) = Standards are listed on Table 1.		Chloride	---	---	Mercury	---	0.01(t)
*pH(acute) = Standards are listed on Table 1.		Chlorine	0.019	0.011	Molybdenum	---	160(T)
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	100	---	Selenium	TVS	TVS
		Nitrite	---	---	Silver	TVS	TVS(tr)
		Phosphorus	---	---	Uranium	---	---
		Sulfate	---	---	Zinc	varies*	varies*
		Sulfide	---	0.002			

4b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Deer Park Creek to Bakers Bridge.

COSJAF04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	TVS(T)	TVS(T)
	Recreation E		acute	chronic	Arsenic	340	0.02(T)
	Water Supply	D.O. (mg/L)	---	6.0	Beryllium	---	---
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	SSE*
Other:		pH	6.5 - 9.0	---		TVS(tr)	TVS
*Cadmium(acute)=(1.136672-ln(hardness)*0.041838)*e^(0.9789*ln(hardness)-3.866)		chlorophyll a (mg/m2)	---	---	Chromium III	50(T)	TVS
*Cadmium(chronic)=(1.101672-ln(hardness)*0.041838)*e^(0.7977*ln(hardness)-3.909)		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Temporary Modification(s):		Inorganic (mg/L)			Copper	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Iron	---	WS
Expiration Date of 12/31/2021		Ammonia	TVS	TVS	Iron	---	1000(T)
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Manganese	---	WS
		Cyanide	0.005	---	Mercury	---	0.01(t)
		Nitrate	10	---	Molybdenum	---	160(T)
		Nitrite	---	0.05	Nickel	TVS	TVS
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)
		Sulfide	---	0.002	Uranium	---	---
					Zinc	TVS	TVS

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6. Mainstem of the Animas River from the source to the outlet of Denver Lake. Mainstem, including all tributaries and wetlands of Cinnamon Creek, Grouse Creek, Picayne Gulch, and Minnie Gulch. All tributaries and wetlands to the Animas River from immediately above Maggie Gulch to Elk Park [\(including tributaries and wetlands of Mineral Creek\)](#) except for those listed under segments 3c, 7, 8, and 9.

COSJAF06	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
	Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	---	---	Aluminum	---
Qualifiers:		acute	chronic					
		---	6.0				Arsenic	340
Other:		---	7.0				Beryllium	---
		6.5 - 9.0	---				Cadmium	SSE*
	pH	---	---					TVS(tr)
	chlorophyll a (mg/m2)	---	---				Chromium III	50(T)
	E. Coli (per 100 mL)	---	126				Chromium VI	TVS
	Inorganic (mg/L)	acute	chronic				Copper	TVS
		TVS	TVS				Iron	---
	Ammonia	---	0.75				Iron	---
	Boron	---	250				Lead	TVS
	Chloride	0.019	0.011				Manganese	TVS
	Chlorine	0.005	---				Manganese	---
	Cyanide	10	---				Mercury	---
	Nitrate	---	0.05				Molybdenum	---
	Nitrite	---	---				Nickel	TVS
	Phosphorus	---	WS				Selenium	TVS
	Sulfate	---	0.002				Silver	TVS
	Sulfide	---	---				Uranium	---
							Zinc	TVS
								TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021								
$*Cadmium(acute) = (1.136672 \cdot \ln(hardness) \cdot 0.041838) \cdot e^{(0.9789 \cdot \ln(hardness) - 3.866)}$ $*Cadmium(chronic) = (1.101672 \cdot \ln(hardness) \cdot 0.041838) \cdot e^{(0.7977 \cdot \ln(hardness) - 3.909)}$								

7. Mainstem of Cement Creek, including all tributaries, and wetlands, from the source to the confluence with the Animas River.

COSJAF07	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
	UP	Recreation E					Aluminum	---
Qualifiers:		acute	chronic				Arsenic	---
		---	3.0				Beryllium	---
Other:		3.7-9.0	---				Cadmium	---
		pH	---	---			Chromium III	---
	chlorophyll a (mg/m2)	---	---				Chromium VI	---
	E. Coli (per 100 mL)	---	126				Copper	---
	Inorganic (mg/L)	acute	chronic				Iron	---
		---	---				Lead	---
	Ammonia	---	0.75				Manganese	---
	Boron	---	---				Mercury	---
	Chloride	---	---				Molybdenum	---
	Chlorine	---	---				Nickel	---
	Cyanide	0.2	---				Selenium	---
	Nitrate	100	---				Silver	---
	Nitrite	---	10				Uranium	---
	Phosphorus	---	---				Zinc	---
	Sulfate	---	---					2000(T)
	Sulfide	---	---					
*The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving water quality standards established for segments 4a and 4b.								

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Animas and Florida River Basins

8. Mainstem of Mineral Creek, including wetlands, from the source to a point immediately above the confluence with South Mineral Creek. All tributaries on the east side of this segment of Mineral Creek including wetlands, except for Big Horn Creek. Mainstem of the Middle Fork of Mineral Creek including all tributaries and wetlands from the source to the confluence with Mineral Creek except for Crystal Lake and its exiting tributary to confluence with Middle Fork of Mineral Creek.

COSJAF08	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Recreation E				
Qualifiers:		acute	chronic		
Other: *The concentration of dissolved aluminum, cadmium, copper, iron, lead, manganese, and zinc that is directed toward maintaining and achieving water quality standards established for segments 4a and 4b.	D.O. (mg/L)	---	3.0	Aluminum	---
	pH	4.5-9.0	---	Arsenic	---
	chlorophyll a (mg/m2)	---	---	Beryllium	---
	E. Coli (per 100 mL)	---	126	Cadmium	---
	Inorganic (mg/L)			Chromium III	---
				Chromium VI	---
				Copper	---
				Iron	---
				Lead	---
				Manganese	---
				Mercury	---
				Molybdenum	---
				Nickel	---
				Selenium	---
				Silver	---
			Uranium	---	
			Zinc	---	
				2000(T)	

9. Mainstem of Mineral Creek, including wetlands, from immediately above the confluence with South Mineral Creek to the confluence with the Animas River.

COSJAF09	Classifications	Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
UP	Aq Life Cold 2*	CS-I	CS-I		
	Recreation E				
	Water Supply				
Qualifiers:		acute	chronic		
Other: *Classification: Aquatic Life indicator goal: Macroinvertebrates; Brook Trout corridor *Aluminum(chronic) = Standards are listed on Table 1. *Cadmium(acute) =(1.136672-ln(hardness)/0.041838)*e^(0.9789*ln(hardness)-3.866) *Cadmium(chronic) =(1.101672-ln(hardness)/0.041838)* e^(0.7977*ln(hardness)-3.909) *Copper(chronic) = Standards are listed on Table 1. *Iron(chronic) = Standards are listed on Table 1. *Zinc(chronic) = Standards are listed on Table 1. *pH(acute) = Standards are listed on Table 1.	Temperature °C			Aluminum	---
	D.O. (mg/L)	---	6.0	Arsenic	340
	D.O. (spawning)	---	7.0	Beryllium	---
	pH	varies*	---	Cadmium	SSE*
	chlorophyll a (mg/m2)	---	---		SSE*
	E. Coli (per 100 mL)	---	126	Chromium III	TVS(##)
				Chromium III	TVS
				Chromium VI	TVS
				Chromium VI	TVS
				Copper	TVS
				Iron	TVS
				Iron	varies*
				Iron	---
				Lead	WS
				Lead	TVS
			Manganese	TVS	
			Manganese	TVS	
			Manganese	---	
			Mercury	---	
			Mercury	0.01(t)	
			Molybdenum	---	
			Molybdenum	160(T)	
			Nickel	---	
			Nickel	TVS	
			Selenium	TVS	
			Selenium	TVS	
			Silver	TVS	
			Silver	TVS(tr)	
			Uranium	---	
			Uranium	---	
			Zinc	---	
			Zinc	TVS	
			Zinc	varies*	

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS – FOOTNOTES

(A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.

TABLE 1
 ANIMAS RIVER BASIN
 AQUATIC LIFE INDICATOR GOAL: BROOK TROUT

Segment 3a
 Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

Chronic Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Cd	TVS	TVS	TVS	3.5	2.2	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Mn	TVS	TVS	2571	2179	TVS	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

Segment 4a

Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Zn	460	520	620	570	430	250	170	240	290	340	380	420

Chronic Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
pH	5.9-9.0	5.7-9.0	6.2-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	5.9-9.0
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Fe	3473	2961	3776	3404	2015	1220	1286	1830	1623	2258	2631	3511
Zn	460	520	620	570	430	250	170	240	290	340	380	420

Segment 9

Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Al(Trec)	4680	4950	4560	3800	1390	1350	1290	2040	2570	2680	3450	4050

Chronic Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
pH	4.9-9.0	4.8-9.0	4.9-9.0	5.9-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.2-9.0	5.4-9.0
Al(Trec)	4680	4950	4560	3800	1390	1350	1290	2040	2570	2680	3450	4050
Cu	TVS	TVS	TVS	18	20	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Fe	3420	3800	4370	3370	3150	2210	2275	2280	3020	3580	3620	3490
Zn	TVS	TVS	TVS	TVS	230	TVS	TVS	TVS	TVS	TVS	TVS	TVS

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 34 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR SAN JUAN RIVER AND DOLORES RIVER BASINS

5 CCR 1002-34

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34.48 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; JUNE 12, 2017 RULEMAKING; FINAL ACTION AUGUST 14, 2017; EFFECTIVE DATE DECEMBER 30, 2017

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

BASIS AND PURPOSE

The Commission changed the chronic and acute cadmium standards in several segments in the upper Animas River Basin to a site specific equation equal to EPA's new cadmium criteria. Water quality in all of these segments – 3a, 3c, 4a, 4b, 6, and 9 – may be impacted by activities related to the newly created Bonita Peak Mining District Superfund site. While remediation goals under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) related to water quality do not have to meet the standards set by the Commission, the authorities implementing the remedial actions will look to the Commission's standards to help guide their determinations regarding remediation.

In addition, several of the segments currently do not meet chronic cadmium Table Value Standards (TVS), but will meet the new equation from EPA's new criteria. This change in standard will keep these segments from potentially being listed as impaired waters for cadmium.

In segment 3a, the Commission decide to keep in place the numeric, chronic cadmium standards for April and May, ~~at least until more investigations under the Superfund program are completed.~~