State of Colorado

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11-28-12 Release Results - Eagle Mine

1 message

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Kelly/Tom

Attached are the laboratory analytical results from the 11.28.12 release at Eagle Mine. The release sample was collected from ponded water beneath the release as the pipe was no longer flowing. We had never seen arsenic that high in the influent samples before. Consequently, we had the arsenic from the release analyzed for dissolved concentrations and as expected, the concentrations dropped significantly which appears to indicate that the elevated arsenic was due to suspended solids from the ground beneath the release. There do not appear to be any exceedances of MCLs in the samples collected from the Eagle River.

Let me know if you need any additional information.

Thanks

David

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11-28-12 Eagle Mine Release Results.xlsx
13K

TABLE 1
Release and Eagle River Sampling Results - 11/28 and 11/29/2012

Constituent	Samples Collected 11/28/12 and Time					Samples Collected 11/29/12 and Time			
	Release 11:59	~1/4 Mile Upstream 2:05	E12A 12:42	E15 1:00	E22 1:35	~50 feet Upstream 3:20	E12A 3:00	E15 6:00	E22 4:00
TOTAL									
Solids, Total Dissolved (mg/L)	2,080	108	152	370	346	98	72	128	146
Solids, Total Suspended (mg/L)	428	<5.0	6	7	<5.0	<5.0	<5.0	<5.0	<5.0
Sulfate (mg/L)	2,030	19.4	50.8	206	171	17.0	30.1	35.9	43.1
Sulfide (mg/L)	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Boron (ug/L)	<400	<400	<400	<400	<400	<400	<400	<400	<400
Cadmium (µg)	15.1	1.1	1.5	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Copper (µg)	543	<20	<20	<20	<20	<20	<20	<20	<20
Lead (µg)	138	<5.0	2.6	2.2	<1.0	<5.0	<5.0	<5.0	<5.0
Mercury (µg)	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc (µg)	19,300	169	323	618	265	169	225	208	139
TOTAL RECOVERABLE									
Arsenic (µg)	2,070	<2.0	5.1	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
DISSOLVED									
Arsenic (µg)	25.5	NA	NA	NA	NA	NA	NA	NA	NA
Iron (µg)	25,300	<400	<400	<400	<400	<400	<400	<400	<400
Manganese (µg)	20,700	62.9	673	1,270	706	56.6	489	352	248
POTENTIALLY DISSOLVED									
Cadmium (µg)	13.4	<1.0	1.6	2.4	15	<1.0	<1.0	<1.0	<1.0
Copper (µg)	375	<20	<20	<20	<20	<20	<20	<20	<20
Lead (µg)	77.9	<5.0	<5.0	<5.0	11.1	<5.0	<5.0	<5.0	<5.0
Manganese (µg)	21,700	79	704	1,110	1,080	57.5	466	351	248
Zinc (µg)	18,500	175	365	598	285	148	204	166	124

Notes:
Samples collected were a Grab Sample
Release sample collected from water pooled beneath the release point
NA = Not analyzed