0019

File ACT/007/006
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CYPRUS
Plateau Mining

Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501
(801) 637-2875

August 4, 1989

RECEIVED
AUG 07 1989
DIVISION OF
OIL, GAS & MINING

Mr. Richard Smith
Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: North Fork Right Fork Miller Creek Mitigation

Dear Mr. Smith:

Enclosed please find data from stream monitoring of the NFRF Miller Creek. This sample was taken on July 3, 1989, and includes water returned to the stream channel from the mine sump. The total flow at Station M8 was 35 GPM, or 0.078 cfs. Of this amount, approximately 43%, or 15 GPM, is from the mine and 57%, or 20 GPM, is natural water which occurs below the subsidence zone.

As you can see by comparing the water quality with the sample taken at the same point on June 6, the water quality of this sample is generally better. The temperature was higher on this date and the dissolved oxygen was lower, which would be expected with the higher air temperatures in July versus the June sample.

Respectfully,

Ben Grimes
Sr. Environmental Engineer

/kam

Enclosure

Chrono: BG890803

File: ENV 2-5-2-16-31

Client : Plateau Mining Company
Address : P.O. Drawer PMC
Price, Utah 84501
Attn. : Mr. Ben Grimes
P.O. No.:
Sample ID: M8 = INCLUDES DISCHARGE FROM MINE Lab No. : 89-WI/04205
Sample Date Time: 07/03/89 11:00 Date Received: 07/10/89

Parameters

Alkalinity as CaCO3	266.	mg/l
Bicarbonate as CaCO3	266	mg/l
Boron, dissolved	.15	mg/l
Calcium, dissolved	123.	mg/l
Carbonate as CaCO3	0	mg/l
Chloride	9.	mg/l
Fluoride	0.5	mg/l
Hardness as CaCO3	800.	mg/l
Hydroxide as CaCO3	0	mg/l
Magnesium, dissolved	120.	mg/l
Magnesium, total	152.	mg/l
Nitrogen, ammonia	.03	mg/l
Nitrate as N, dissolved	.11	mg/l
Nitrite as N, dissolved	-.01	mg/l
Oil and Grease	-1.	mg/l
Phosphate	-.1	mg/l
Phosphorus, ortho diss	-.005	mg/l
Potassium, dissolved	8.	mg/l
SAR in water	.14	
Sodium, dissolved	9.	mg/l
Sulfate	552.	mg/l
Sulfide as S	-.01	mg/l
Cations (sum)	16.59	meq/l
Anions (sum)	17.16	meq/l
Cation-Anion Balance	-1.69	%
Solids, total dissolved	1050.	mg/l
Solids, settleable	-.1	ml/l/hr
Aluminum, dissolved	-.05	mg/l
Arsenic, dissolved	-.001	mg/l
Barium, dissolved	.04	mg/l
Cadmium, dissolved	-.005	mg/l
Chromium, dissolved	-.01	mg/l
Copper, dissolved	-.01	mg/l
Iron, dissolved	-.02	mg/l
Iron, total	-.02	mg/l
Manganese, dissolved	-.01	mg/l
Manganese, total	-.01	mg/l
Mercury, dissolved	-.0001	mg/l
Molybdenum, dissolved	-.05	mg/l
Nickel, dissolved	-.02	mg/l
Selenium, dissolved	.003	mg/l
Zinc, total	-.01	mg/l

Remarks: Lab filtration required.
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/SH.

FIELD DATA: FLOW - 0.078 cfs
TEMP - 14°
pH - 8.41
COND 1390 DO 7.66