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Orig: 015/007 #C
cc: (coverlet only) whitehead

CalMat Co

P.O. BOX 947, COLTON, CALIFORNIA 92324/(714) 825-4260

CalMat

December 13, 1988

Mr. Lowell P. Braxton
Administrator
Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RECEIVED
DEC 16 1988
DIVISION OF
OIL, GAS & MINING

Re: Ivie Creek, Hidden Valley Project
1988 Stream Monitoring Work

Dear Mr. Braxton:

Enclosed are the results of the September 1988 stream monitoring work for Ivie Creek at the Hidden Valley Project. Samples and field measurements were taken on September 9, 1988.

Both the field results, including work sheets, and the laboratory results are included here. Site #1 is the upstream monitoring site and is located on the west side of the property. Site #2, the downstream monitoring site, is located just to the east of the property line.

Please contact me if you have any questions regarding this matter.

Sincerely,

John W. Rains

John W. Rains
Chief Mining Engineer
California Portland Cement Division

JWR/kew
Enclosures

jwr302

CHEMTECH
CHEMICAL AND BACTERIOLOGICAL ANALYSES

6100 S. STRATLER
MURRAY, UTAH 84107
(801) 262-7299

DATE: 10-25-88

TO: JBR Consultants
1952 E. Fort Union Blvd. STE 209
Salt Lake City, UT 84121

LAB NO: U034665 - Submitted on 9-13-88

LOCATION: Hidden Valley, Site #1 Upper

CERTIFICATE OF ANALYSIS

PARAMETER	LEVEL	DATE
TDS, mg/l	3,960	9-15-88
TSS, mg/l	2.9	9-17-88
SS, mg/l	<.1	9-15-88
Hardness as $CaCO_3$, mg/l	1,760	9-28-88
Acidity as $CaCO_3$, mg/l	0	9-14-88
Carbonate as CO_3, mg/l	5.8	9-27-88
Bicarbonate as HCO_3, mg/l	201	9-27-88
Calcium as Ca, mg/l	412	10-20-88
Chloride as Cl, mg/l	309	10-17-88
Iron as Fe (D), mg/l	0.128	10-14-88
Magnesium as Mg, mg/l	202	10-20-88
Manganese as Mn (T), mg/l	0.023	10-14-88
Potassium as K, mg/l	12.8	10-20-88
Sodium as Na, mg/l	473	10-20-88
Sulfate as SO_4, mg/l	2,270	10-3-88
Oil & Grease, mg/l	<.5	9-13-88
Cation, meq/l	58.1	
Anion, meq/l	59.5	

Rex Henderson

CHEMTECH
CHEMICAL AND BACTERIOLOGICAL ANALYSES

6100 S. STRATLER
MURRAY, UTAH 84107
(801) 262-7299

DATE: 10-25-88

TO: JBR Consultants
1952 E. Fort Union Blvd. STE 209
Salt Lake City, UT 84121

LAB NO: U034666 - Submitted on 9-13-88

LOCATION: Hidden Valley, Site #2 Lower

CERTIFICATE OF ANALYSIS

PARAMETER	LEVEL	DATE
TDS, mg/l	3,770	9-15-88
TSS, mg/l	2.4	9-17-88
SS, mg/l	<.1	9-15-88
Hardness as $CaCO_3$, mg/l	1,680	9-28-88
Acidity as $CaCO_3$, mg/l	0	9-14-88
Carbonate as CO_3, mg/l	14.1	9-27-88
Bicarbonate as HCO_3, mg/l	192	9-27-88
Calcium as Ca, mg/Kg	424	10-20-88
Chloride as Cl, mg/l	305	10-17-88
Iron as Fe (D), mg/l	0.138	10-14-88
Magnesium as Mg, mg/l	206	10-20-88
Manganese as Mn (T), mg/l	0.025	10-14-88
Potassium as K, mg/l	12.8	10-20-88
Sodium as Na, mg/l	469	10-20-88
Sulfate as SO_4, mg/l	2,160	10-3-88
Oil & Grease, mg/l	<.5	9-13-88
Cation, meq/l	58.8	
Anion, meq/l	57.2	

Rex Henderson

HIDDEN VALLEY MINE
WATER MONITORING SUMMARY
SEPTEMBER 9, 1988

Karla Knoop, JBR Consultants Group

Location	Time	Flow (cfs)	Temp. °C	pH	Conductivity (micromhos/ cm_2)	Dissolved Oxygen (mg/l)
#1 Ivie Ck (upper)	1145	0.6	17	8.3	4000	9.8
#2 Ivie Ck (lower)	1030	0.6	16.2	8.5	4000	9.2