

Quivira Mining Company
P.O. Box 218, Grants, NM USA 87020 (505)287-8851

January 23, 1998

Certified Mail
Return Receipt Requested (P 268 360 607)

Ms. Katherine Yuhas Everett
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

40-8905

Re: **Discharge Plan, DP-169**

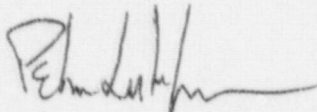
Dear Katherine,

Please find enclosed the semi-annual monitoring report for the alluvial monitoring system covering the second half of 1997 as required by Discharge Plan, DP-169.

If you have any questions, please call me at (505) 287-8851, extension 205.

Regards,

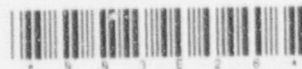
QUIVIRA MINING COMPANY



Peter Luthiger
Supervisor, Radiation Safety
and Environmental Affairs

xc: T. Fletcher
P. Goranson
file

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PDR ADOCK 04008905
C PDR

HYDROLOGICAL MONITORING REPORT
AMBROSIA LAKE, N.M.

ALLUVIAL WELLS
2nd Half, 1997

Well ID	Date	Depth To Water (f)	Total Depth (ft)	Spec. Cond.	Temp. (c)	pH	SO4 (mg/L)	Cl (mg/L)	NO3 (mg/L)
30-03	28-Jul-97	18.2	19.8						
30-03	21-Aug-97	18.2	19.8						
30-03	11-Sep-97	18.0	19.7						
30-03	14-Oct-97	18.0	19.7						
30-03	21-Nov-97	17.4	19.7						
30-03	18-Dec-97	16.7	19.7	5000	13.0	9.5	207	244	<0.1
30-04	13-Nov-97	35.1	87.5	6100	11.0	9.1	2470	1600	<0.1
*30-46	21-Nov-97		38.4						
30-47	19-Nov-97	25.9	79.3	3100	11.0	6.4	2380		<0.1
30-48	13-Nov-97	23.1	79.6	1900	11.5	9.0	1240	175	0.1
30-49	13-Nov-97	44.8	69.5	3200	12.0	6.9	2370	309	<0.1
*30-53	21-Nov-97		50.4						
*30-68	21-Nov-97		62.5						
31-05	11-Nov-97	32.7	78.7	7200	11.5	8.5	287	33	<0.1
31-61	06-Nov-97	16.5	27.1	6000	13.0	6.6	4040	357	14.0
31-63	11-Nov-97	18.9	30.0	12500	11.5	5.8	6710	2670	14.0
31-65	19-Nov-97	16.8	46.1	8500	12.0	6.5	4390	1510	8.3
31-70	11-Nov-97	17.5	34.7	9100	12.0	6.2	4940	1420	23.0
31-71	11-Nov-97	14.8	65.2	2950	13.0	6.8	1780	490	1.5
32-01	12-Nov-97	16.5	52.8	5800	12.0	9.3	2610	892	0.1
32-02	12-Nov-97	16.5	52.8	5800	12.0	9.3	3610	1090	0.1
32-41	12-Nov-97	22.5	58.7	3600	12.0	7.3	2320	483	<0.1
32-42	12-Nov-97	23.3	29.3	3280	12.0	7.2	2140	390	<0.1
32-43	12-Nov-97	16.4	55.4	5900	12.5	7.8	3000	698	184.0
32-50	18-Nov-97	34.9	91.7	3400	12.5	7.5	2290	358	<0.1
32-51	12-Nov-97	23.9	76.5	3975	12.0	7.4	3110	194	10.0
32-52	12-Nov-97	23.8	66.9	2750	12.0	9.0	2100	177	<0.1
*32-56	18-Nov-97		57.7						
32-57	18-Nov-97	36.6	54.7	6000	12.0	7.5	4520	213	<0.1
32-58	18-Nov-97	7.3	34.4	4075	13.0	7.0	2070	617	0.3
32-59	06-Nov-97	8.6	39.2	3675	12.5	7.0	2090	233	0.3
32-60	13-Nov-97	16.4	24.8	6500	12.5	6.6	3760	816	24.0
32-69	12-Nov-97	24.6	67.3	2900	10.5	7.0	1220	588	0.4
32-72	13-Nov-97	8.6	40.1	3400	13.0	6.8	1500	595	1.0
5-01	18-Nov-97	16.6	45.2	3190	13.0	9.4	2040	421	<0.1
5-02	18-Nov-97	12.8	14.8	5800	14.0	7.5	2320	1440	0.1
5-03	06-Nov-97	9.9	45.6	2700	13.5	8.2	1510	485	0.2
5-04	18-Nov-97	5.1	65.2	650	13.0	8.0	261	99	<0.1
5-08	18-Nov-97	21.8	85.4	2510	12.5	9.8	1460	372	0.1
5-73	18-Nov-97	5.7	31.6	3375	13.0	7.3	2180	403	0.1
AW-1	13-Nov-97	35.1	81.2	3400	11.0	6.7	1790	577	2.1
AW-2	12-Nov-97	25.5	83.9	3030	12.0	7.1	2210	174	0.6
*C-3	21-Nov-97		12.3						
D-4	18-Dec-97	21.3	22.7	13250	13.0	6.0	93	7110	<0.5
E-5	18-Nov-97	13.2	16.1	9900	13.5	6.8	4260	2020	<0.1
+MW-24	06-Nov-97	49.4	50.3						
S-12	13-Nov-97	13.0	26.9	7000	12.5	6.6	4300	873	<0.1
S-9	13-Nov-97	9.4	23.5	10000	13.0	7.8	4300	2320	<0.1

"*" - DRY WELL, "+" - INSUFF. H2O FOR SAMPLE COLLECTION