

40-8905

QUIVIRA MINING COMPANY

POST OFFICE BOX 218 • GRANTS, NEW MEXICO 87020

December 19, 1996

Certified Mail
Return Receipt Requested (P 268 360 584)

Mr. Richard Ohrbom
Groundwater Section
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

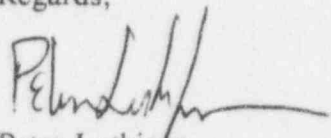
Re: **Discharge Plan - 71**
Section 4 Evaporation Ponds
4th Quarter 1996

Dear Mr. Ohrbom,

Quivira Mining Company submits the following monitoring and analytical information in accordance with Discharge Plan - 71.

If you have any questions or need additional information, please call me at 287-8851, extension 205.

Regards,



Peter Luthiger
Supervisor, Radiation Safety
and Environmental Affairs

Attachments: As stated

xc: T. Fletcher
M. Freeman
J. Holonich (NRC)
NRC - Arlington
file

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Hydrological Monitoring Report Form
 Ambrosia Lake, New Mexico
 Section 4 Monitor Wells (DP-71)
 Page 1

Monitoring Well	Date	Depth To Water (feet)	Total Depth (feet)	Specific Conduct.	Temp. (C)	pH	Var. H2O	Cl mg/l	NO3(N) mg/l	SO4 mg/l	TDS mg/l
MW-1	03-Oct-96		39.20				Dry				
MW-2	03-Oct-96		38.65				Dry				
MW-3	03-Oct-96		38.12				Dry				
MW-4	03-Oct-96		35.74				Dry				
MW-5	03-Oct-96		38.65				Dry				
MW-6	03-Oct-96		38.60				Dry				
MW-7	03-Oct-96		38.70				Dry				
MW-8	03-Oct-96		38.70				Dry				
MW-9	03-Oct-96		38.78				Dry				
MW-10	03-Oct-96		39.28				Dry				
MW-11	03-Oct-96		36.18				Dry				
MW-12	03-Oct-96		18.27				Dry				
MW-13	03-Oct-96	29.43	29.49				Insuff H2O				
MW-14	03-Oct-96		47.50				Dry				
MW-15	03-Oct-96		39.76				Dry				
MW-16	03-Oct-96		38.25				Dry				
MW-17	03-Oct-96		43.41				Dry				
MW-18	03-Oct-96		55.00				Dry				
MW-19	04-Oct-96	47.55	48.95	2600	13.8	7.1	0.04	30.0	0.2	1920	3170
MW-20	03-Oct-96		51.26				Dry				
MW-21	03-Oct-96		52.17				Dry				
MW-22	04-Oct-96	28.85	37.07	3725	12.8	7.6	0.02	82.0	88.0	2910	4540
MW-23	03-Oct-96	41.75	41.85				Insuff H2O				
MW-24	03-Oct-96	49.41	50.21				Insuff H2O				
MW-25	03-Oct-96		29.82				Dry				
MW-26	03-Oct-96	35.13	35.41				Insuff H2O				
MW-27	04-Oct-96	24.32	28.12	3150	12.7	7.4	0.04	198.0	0.6	2250	3660
MW-28	03-Oct-96		32.61				Dry				
MW-29	04-Oct-96	27.28	29.40	2825	12.5	7.6	-0.05	219.0	11.0	1870	3250
MW-30	04-Oct-96	38.02	42.45	2800	12.8	7.5	0.48	79.0	0.4	2150	3470
MW-31	04-Oct-96	48.43	51.10	2825	12.8	7.4	0.28	71.0	4.3	2130	3500

Note --> A negative variance indicates a decrease in the depth to water level from the previous reading.
 A positive variance indicates an increase in the depth to water level from the previous reading.