

04008905840E

40-8905  
X61210

**QUIVIRA MINING COMPANY**

POST OFFICE BOX 218 • GRANTS, NEW MEXICO 87020

November 12, 1993

RETURN ORIGINAL TO PDR, HQ.

Certified Mail  
Return Receipt Requested P 762 964 197

Mr. Ramon Hall, Director  
Uranium Recovery Field Office  
U.S. Nuclear Regulatory Commission  
P.O. Box 25325  
Denver, Colorado 80225

DOCKETED  
NOV 17 1993  
USNRC  
MAIL SECTION  
DOCKET CLERK

93 NOV 16 P 3:07

URFO  
RECEIVED

Re: Annual Report, Groundwater Corrective Action Plan  
Ambrosia Lake Facility  
License SUA-1473, Docket No. 40-8905

Dear Mr. Hall:

Please find attached a supplemental Corrective Action Program (CAP) report for the original CAP annual report submitted on July 30, 1993 for the above referenced facility.

As stated within the July 30, 1993 CAP submittal, this supplemental report contains the revised areal plume plots for those hazardous constituents which contained data not representative of historical concentrations at two (2) Dakota sandstone monitoring wells.

If you have any questions concerning this submittal, please contact me at (505) 287-8851, extension 246.

Sincerely,

Peter Luthiger  
Supervisor, Radiation Safety  
and Environmental Affairs

18 177

9402250248 931112  
PDR ADOCK 04008905  
C PDR

Attachments: As Stated

xc: B. Ferdinand - RAMC (OKC) w\attachments  
A. Gebeau - RAMC (Ambrosia Lake) w\attachments  
R. Ohrbom - NMED (Santa Fe) w\attachments  
file

DESIGNATED ORIGINAL

Certified By *Mary C. Hood*

DF02  
111

94-0077

Dakota Sandstone Areal Plume Plots

The July 30, 1993 Corrective Action Program (CAP) submittal contained Dakota formation areal plume plots of those hazardous constituents required by license condition #34 of Source Material License SUA-1473. These plots include antimony, beryllium, cadmium, and nickel.

Due to the contract laboratory performing a 5:1 dilution on the groundwater samples obtained from monitoring wells 36-01KD and 36-04KD, the reported results for the four hazardous constituents listed above were not indicative of historical concentrations at the two wells.

As such, Quivira resampled the wells for confirmation of the questionable data. Results of the resampling along with the values reported in the July 30, 1993 CAP submittal are presented in Table 1.

**TABLE 1**  
**COMPARISON OF WELLS 36-01KD AND 36-04KD**  
All Values in milligrams per liter

WELL	PARAMETER	REPORTED	RESAMPLE
36-01KD	Antimony	< 0.25	< 0.003
	Beryllium	< 0.05	< 0.01
	Cadmium	< 0.025	< 0.005
	Nickel	< 0.05	< 0.01
36-04KD	Antimony	< 0.25	< 0.003
	Beryllium	< 0.05	< 0.01
	Cadmium	< 0.025	< 0.005
	Nickel	< 0.05	< 0.01

Table 1 indicates that all results obtained from the resampling of 36-01KD and 36-04KD for those parameters which contained questionable data were below the laboratory's level of detection. The results of the resampling are representative of historical concentrations for these parameters at these two Dakota monitoring wells.

As a result of confirming that the results reported within the July 30, 1993 CAP submittal were indeed not representative, the revised areal plume plots for the Dakota formation for the hazardous constituents antimony, beryllium, cadmium, and nickel are attached.

**QUIVIRA MINING COMPANY  
AMBROSIA LAKE FACILITY**

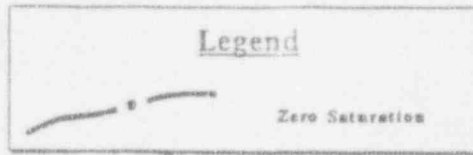
**CORRECTIVE ACTION PLAN  
1992 ANNUAL REPORT  
(SUPPLEMENTAL)**

# Antimony

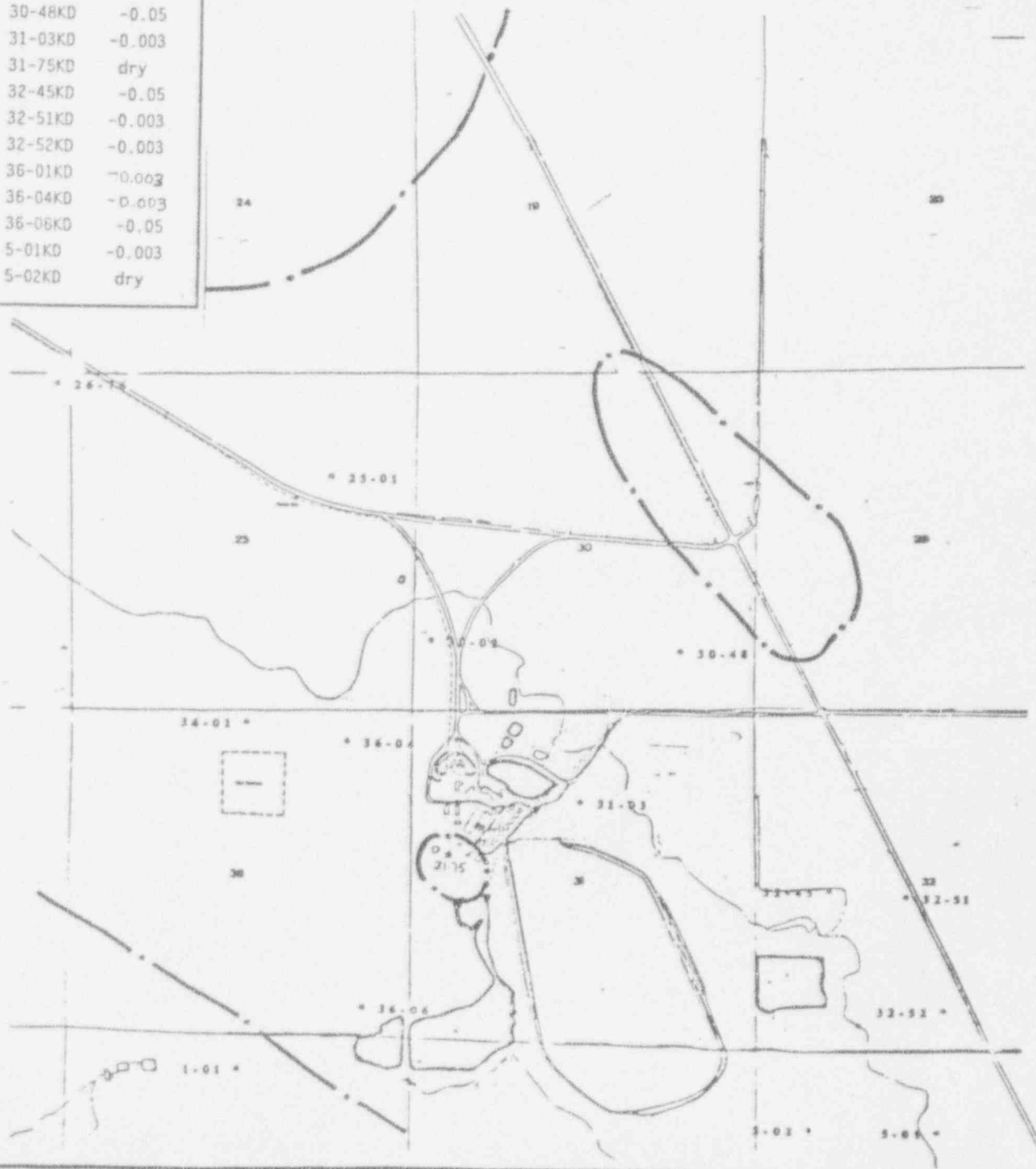
## 1993 Concentration Isopleth

### Groundwater Standard - 0.05 mg/l

WELL	CONC. mg/l
17-01KD	-0.05
1-01KD	dry
25-01KD	-0.003
26-76KD	-0.003
30-02KD	-0.05
30-48KD	-0.05
31-03KD	-0.003
31-75KD	dry
32-45KD	-0.05
32-51KD	-0.003
32-52KD	-0.003
36-01KD	-0.003
36-04KD	-0.003
36-06KD	-0.05
5-01KD	-0.003
5-02KD	dry



Analytical results for all wells were less than the groundwater standard as specified within License Condition #34, Section B.



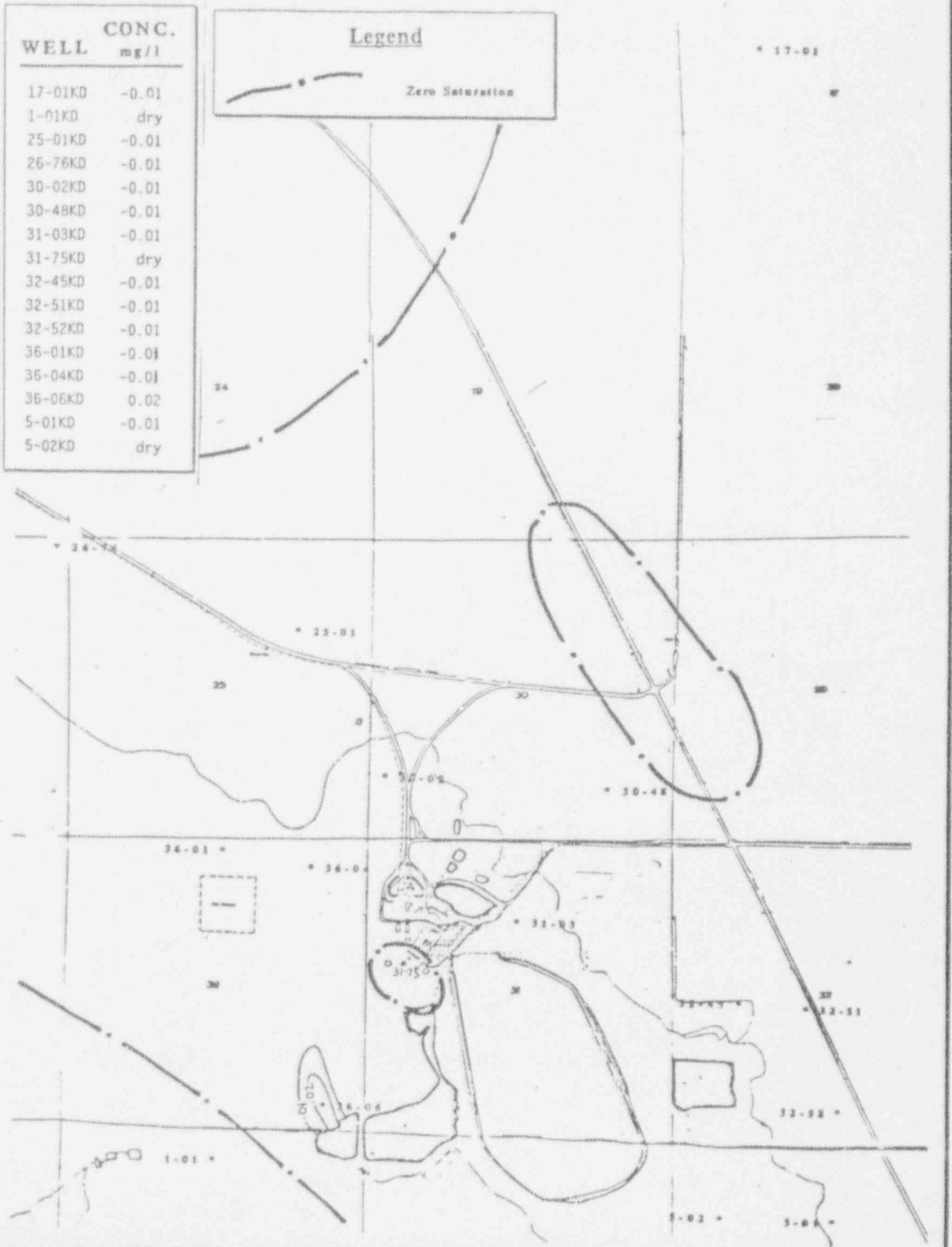
# Beryllium

1993 Concentration Isopleth  
Groundwater Standard - 0.01 mg/l

WELL	CONC. mg/l
17-01KD	-0.01
1-01KD	dry
25-01KD	-0.01
26-76KD	-0.01
30-02KD	-0.01
30-48KD	-0.01
31-03KD	-0.01
31-75KD	dry
32-45KD	-0.01
32-51KD	-0.01
32-52KD	-0.01
36-01KD	-0.01
36-04KD	-0.01
36-06KD	0.02
5-01KD	-0.01
5-02KD	dry

**Legend**

Zero Saturation



# Cadmium

## 1993 Concentration Isopleth

Groundwater Standard - 0.01 mg/l

