

AVM Environmental Services, Inc.

216 W. High Street, Grants, New Mexico 87020

FAX

40-8902

If you do not receive all pages indicated below, please call the number listed below

Date: 12/31/96

Number of pages including cover sheet: 5

To:

Claire Brummet
ABC

Phone:

Fax phone: 301-415-5397

CC:

From:

Naveen Patel

AVM Environmental Services, Inc.

Phone: (505) 287-4593 or (505) 285-5616

Fax phone: (505) 287-2595

REMARKS:

☐ Urgent☒ For your review☐ Reply ASAP☐ Please comment

Thorium in Soil Samples at ABC site.

9701210314 961231
PDR ADOCK 04008902
C PDR

N12050/1

Table 1

ARCO Bluewater Mill Site
Summary of Th-230 QA/QC Sample Results

Sample Identification			Sample Results, Th-230, pCi/gm			
NRC Spill No.	ARCO #	ORISE ID#	Accu-Labs	Energy Lab ⁽¹⁾	ORISE ⁽²⁾	ORISE ⁽³⁾
ARCO-1	96-09, Pt#505	S008	19.0	0.8	15.8	22.8
ARCO-3	96-13, Pt#513	S010	93.0	7.8	79.7	95.5

Note: (1) Energy Laboratories performed original Th-230 analysis for ARCO.

(2) ORISE Alpha Spec analysis

(3) ORISE Gamma Spec analysis



Accu-Labs[®] Research, Inc.

4463 Table Mountain Drive Golden, Colorado 80403-1650
(303) 277-9514 FAX (303) 277-9512

Date: 12/13/96

Page 1

REPORT OF ANALYSIS

Mr Natver Patel
AVM Environmental Services Inc
1717 Del Norte Blvd
Grants, NM 87020

Lab Job Number: 012827 AVM001
Date Samples Received: 12/05/96

ALR Designation:	96-A25596	96-A25597
Client Designation:	S008	S010
Sample Location:	ARCO 1	ARCO 3
Location II:		
Date/Time Collected	10/03/96	10/03/96
Air Dry Loss (%)	3.7	4.4
Thorium-228, total (pCi/g)	0.8 +/- 0.2	0.8 +/- 0.2
Thorium-230, total (pCi/g)	19 +/- 1.0	93 +/- 2.5
Thorium-232, total (pCi/g)	3.3 +/- 0.7	0.8 +/- 0.2

NOTES: When present, *** indicates that the analyte in question was not requested for that sample.
All results reported on a dry weight basis.

Variability of the radioactive disintegration process (counting error) at the 95% confidence level is 1.96 sigma and the level of significance may exceed that of the reported analytical result.

Scheduled sample disposal/return date: January 12, 1997.

Bud Summers
Radiochemistry Supervisor

Accu-Labs Research, Inc.
4663 Table Mountain Drive - Golden, CO 80403-1650 - (303) 277-9514

Date: 12/05/96
Page: 1

SAMPLE ACKNOWLEDGEMENT
ALR JOB NUMBER: 012827

To: Mr Natver Patel
AVM Environmental Services Inc
1717 Del Norte Blvd
Grants, NM 87020

CLIENT PROJECT NO: 636 ARCO
SAMPLES RECEIVED: 12/05/96, 10:25
CLIENT P.O. No.: NONE

Accu-Labs Sample ID	Client Sample ID	Date/Time Collected	Comments
96-A25596 Soil	S008 ARCO 1	10/03/96,	
96-A25597 Soil	S010 ARCO 3	10/03/96,	

Anticipated Completion Date: 12/26/96

Additional Notes

Samples were received intact unless noted.
The original chain of custody forms received are attached for your files.

Please contact the Customer Service Department if you have questions
regarding these samples.

