

RADIOLOGIC AND ENGINEERING ASSESSMENT

FOR

DOE ID NO.: GJ-02172-RS
ADDRESS: 1320 NORTH 17TH STREET

AUGUST 1985

FOR

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT OFFICE

ALBUQUERQUE OPERATIONS OFFICE

DEPARTMENT OF ENERGY

BY

BENDIX FIELD ENGINEERING CORPORATION
P.O. Box 1569
Grand Junction, Colorado 81502

APPROVED BY

Michael K. Tucker
M. TUCKER
DOE PROJECT ENGINEER

DATE

August 19, 1985

REA02172:REA-618

8508300245 850819
PDR WASTE
WM-54 PDR

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

The location, DOE ID No. GJ-02172-RS, is a single-family residence located at 1320 North 17th Street, Grand Junction, Colorado.

The purpose of this assessment is to evaluate the extent of uranium millsite contamination at this property. This assessment includes recommended remedial action, estimated volume of material to be removed, and estimated cost of the proposed action.

1.2 Evaluation and Recommendation

The action recommended is the removal of contaminated material and restoration of the property to its original condition. The identified residual radioactive material found on this property is tailings; the estimated volume is: exterior, 5 cu. yd.; interior, 0 cu. yd.

Estimated cost to perform remedial action, including dislocation when applicable, is \$942. Remedial action on this property will take approximately 7 days to complete.

2.0 PROPERTY DESCRIPTION

2.1 General Description

Address: 1320 North 17th Street, Grand Junction, Colorado

Zoning: Residential (RSF-8)

Lot Size: Approximately 7,140 sf (0.16 acres)

Legal Description: Lot 18, block 4, Elmwood Plaza Refile, Section 12, 1S, 1W, City of Grand Junction, County of Mesa, State of Colorado.

Point of Reference: This property is located approximately 2 mile(s) north of the State of Colorado Tailings Repository. Appendix Figure 2.1 shows the property location relative to its surroundings.

Utilities: Utility locations are shown in Appendix Figure 2.2.

Electrical:	Overhead
Gas:	Underground
Telephone:	Overhead
Sewer:	Underground
Water:	Underground
Cable TV:	Overhead

Bordering Properties:

North:	Single-family residence
South:	Single-family residence
East:	Alley
West:	North 17th Street

2.2 Existing Facilities and Structures

Primary Structure:

Type:	Single-story residence
Size:	Approximately 980 sf
Construction Date:	1954
Construction:	Wood-frame
Foundation:	Concrete stemwall on spread footing
Footing Depth:	Not determined
Basement:	None
Crawl Space:	Yes - under entire living area
Condition:	Good

Other Structures:

Type:	Shed
Size:	Approximately 47 sf
Construction:	Wood-frame
Foundation:	None
Condition:	Good
Type:	Patio (covered)
Size:	Approximately 151 sf
Construction:	Wood-frame
Foundation:	None
Condition:	Good

General Remarks:

Structures, utilities, landscaping, and other special features of this property are included in Appendix Figure 2.2.

Historical Data:

This structure is not over 50 years old. Therefore, it does not meet the eligibility criteria for consideration of inclusion on the National Register of Historic Places.

3.0 RADIOLOGIC SURVEY

3.1 Introduction

Radiologic data were collected by Bendix at DOE ID No. GJ-02172-RS on August 1, 1985. Data collection methods were performed in accordance with procedures fully described in the Radiologic Support Operations Procedures Manual GJ-07(84) (Bendix Field Engineering Corporation, 1984). These data were evaluated to determine the areal and vertical extent of uranium mill tailings contamination at this property as well as any other contaminated material that may have originated from the millsite.

A review of the historical information available for this property was conducted to determine the areas of potential contamination identified during previous radiologic assessments.

The Bendix radiologic survey was designed to investigate the entire property, with emphasis on previously identified areas of contamination. Conclusions based upon data analyses are discussed in Section 3.5, Extent of Contamination. Photocopies of the Official Survey Report, team leader notes, deconvolution graphs, and Exterior Gamma Scan map are included in the Appendix (Section 6.0).

3.2 Gamma Exposure-Rate Surveys

3.2.1 Exterior Findings

Background Readings: 16 to 17 uR/h
Highest Outside Gamma Reading (HOG): 51 uR/h

Exterior radium-concentration measurements are presented in Appendix Table 3.1. Exterior exposure-rate survey results are shown in Appendix Figure 3.1.

3.2.2 Interior Findings

Background Readings: 15 to 17 uR/h
Highest Inside Gamma Reading (HIG): 11 uR/h (ORNL)

Interior gamma exposure-rate measurements are summarized in Appendix Table 3.2.

3.3 Boreholes, Soil Samples, and Other Measurements

Areas which displayed elevated gamma levels were further investigated; the locations and types of these investigations are shown in Appendix Figure 3.2. Data from these investigations is included in Appendix Table 3.1.

3.4 Radon/Radon Daughter Concentration (RDC)

The working level was not assessed by CDH. No RDC measurements were taken by Bendix.

3.5 Extent of Contamination

Appendix Figure 3.3 shows identified areas and estimated depths of contamination on this property, based on assessments of all measurements taken. As noted in this figure, areas recommended for remedial action that contain identified residual radioactive materials are:

(Area A) Surface Material: Concrete
Direction From Primary Structure: West
Total Depth of Contamination: 12 inches
Other (height or thickness): 4-inch-thick concrete
Comments: Sidewalk
Approximate Square Footage: 124

(Area B) Surface Material: Grass
Direction From Primary Structure: West
Other Directions: Along city sidewalk
Total Depth of Contamination: 6 inches
Approximate Square Footage: 46

4.0 RECOMMENDED REMEDIAL ACTION

4.1 Decontamination and Restoration

The recommended remedial action for this property, DOE ID No. GJ-02172-RS, includes removal of all areas identified as containing radioactive material (as discussed in Section 3.5 and shown in Appendix Figure 3.3) and transport of removed material to the disposal site.

After remedial action is completed, the areas involved will be restored to original condition in accordance with the Bendix drawings, Vicinity Properties General Construction Specification (Bendix Field Engineering Corporation, 1984), and Statement of Work for Construction Subcontractor.

Dislocation of the occupants will not be required for this remedial action.

4.2 Evaluation of Recommended Remedial Action

Volume calculations of the areas included for remedial action are presented in Appendix Table 4.1. Cost estimates are presented in Appendix Table 4.2.

Estimated cost of remedial action is \$942.

This remedial action will result in removal of the identified residual radioactive materials.

There is no owner preference with respect to remedial action and no legal or other complications are foreseen at this time.

5.0 REFERENCES

ARIX, A Professional Corporation, Procedures Manual for the Grand Junction Remedial Action Program, for Colorado Department of Health, Radiation Control Division, and the U.S. Department of Energy, 1983.

Bendix Field Engineering Corporation, Procedures Manual Radiologic Support Operations Grand Junction Vicinity Properties, (GJ-07), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Engineering, Construction, and Land Support Manual Grand Junction Vicinity Properties Project, (GJ-08), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Grand Junction Vicinity Properties Operating Manual, (GJ-16) for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Vicinity Properties General Construction Specification, for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Environmental Assessment of Preliminary Cleanup Activities at Offsite Properties Contaminated by Tailings from the Grand Junction Inactive Uranium Millsite, (GJ-04), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1983.

U.S. Department of Energy, Programmatic Memorandum of Agreement (DOE No. DE-GM04-84AL28460) between the U.S. Department of Energy, the Advisory Council on Historic Preservation, and the Colorado State Historic Preservation Officer, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Department of Energy, Vicinity Properties Management and Implementation Manual, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Environmental Protection Agency, Standards for Remedial Action at Inactive Uranium Processing Sites (40 CFR Part 192), Washington, D.C., 1983.

6.0 APPENDIX

This Appendix contains the following:

Appendix Tables:

Table 3.1	Radium Concentrations at Exterior Locations
Table 3.2	Summary of Interior Gamma Exposure Rates
Table 4.1	Area and Volume Calculations
Table 4.2	Estimated Cost of Decontamination and Restoration

Appendix Figures:

Figure 2.1	Vicinity Map
Figure 2.2	Site Plan
Figure 3.1	Exterior Grid-Point Exposure Rates
Figure 3.2	Exterior Sample Locations
Figure 3.3	Exterior Estimated Extent of Contamination

Official Survey Report

Team Leader Notes

Deconvolution Graphs (Apparent Radium-226 Concentration)

Exterior Gamma Scan Map

Radium Concentrations at Exterior Locations

DOE ID #GJ-02172-RS

1320 North 17th Street

Page 1 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
1	164226	00	DS	1.1		*	City sidewalk
2	164227	00	DS	8.6		*	City sidewalk
3	164246	00	DS	34.0		*	City sidewalk
		03	TC	52.0		*	
		06	TC	54.3		*	DC = 12 inches
		09	TC	34.8		*	Based on the
		12	TC	21.3		*	deconvolution graph
		15	TC	13.9		*	
		18	TC	9.7		*	
		21	TC	7.6		*	
		24	TC	6.5		*	
		27	TC	5.8		*	
		30	TC	5.3		*	
		33	TC	5.0		*	
		36	TC	4.9		*	
4	164260	00	DS	29.5		*	City sidewalk
5	166234	00	DS	1.8		*	Adjacent to sidewalk
6	166253	00	DS	4.7		*	Adjacent to sidewalk
		06	DS	2.9		*	
7	168260	00	DS	18.0		*	Sidewalk
8	171260	00	DS	1.8		*	Sidewalk
9	174242	03	TC	2.9		*	Water line
		06	TC	3.2		*	
		09	TC	3.4		*	
		12	TC	3.5		*	DC = 0 inches
		15	TC	3.6		*	
		18	TC	3.7		*	
		21	TC	3.7		*	
		24	TC	3.7		*	
		27	TC	3.7		*	
		30	TC	3.7		*	
		33	TC	3.7		*	
		36	TC	3.7		*	
		39	TC	3.6		*	
		42	TC	3.7		*	
		45	TC	3.7		*	

Radium Concentrations at Exterior Locations

DOE ID #GJ-02172-RS

1320 North 17th Street

Page 2 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
9	174242	48	TC	3.7		*	
		51	TC	3.7		*	
		54	TC	3.7		*	
		57	TC	3.6		*	
		60	TC	3.6		*	
		63	TC	3.6		*	
10	196240	00	DS	1.1		*	
		03	TC	3.2		*	West foundation
		06	TC	3.3		*	
		09	TC	3.5		*	
		12	TC	3.4		*	DC = 0 inches
		15	TC	3.5		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.5		*	
		27	TC	3.5		*	
		30	TC	3.6		*	
		33	TC	3.5		*	
11	210225	03	TC	3.1		*	South foundation
		06	TC	3.4		*	
		09	TC	3.7		*	
		12	TC	3.5		*	DC = 0 inches
		15	TC	3.5		*	
		18	TC	3.5		*	
		21	TC	3.5		*	
		24	TC	3.4		*	
		27	TC	3.4		*	
		30	TC	3.4		*	
12	210271	03	TC	3.0		*	North foundation
		06	TC	3.2		*	
		09	TC	3.3		*	
		12	TC	3.5		*	DC = 0 inches
		15	TC	3.4		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.5		*	
		27	TC	3.5		*	
		30	TC	3.5		*	
		33	TC	3.4		*	
		36	TC	3.5		*	

Radium Concentrations at Exterior Locations

DOE ID #GJ-02172-RS

1320 North 17th Street

Page 3 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
13	221242	03	TC	2.9		*	Sewer and gas lines
		06	TC	3.2		*	
		09	TC	3.3		*	
		12	TC	3.5		*	East foundation
		15	TC	3.5		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.4		*	
		30	TC	3.4		*	
		33	TC	3.5		*	
		36	TC	3.4		*	
		39	TC	3.3		*	
		42	TC	3.3		*	
		45	TC	3.3		*	
		48	TC	3.3		*	
		51	TC	3.2		*	
14	250260	00	DS	<1.0		*	Background
		03	TC	2.9		*	
		06	TC	3.2		*	DC = 0 inches
		09	TC	3.3		*	
		12	TC	3.4		*	
		15	TC	3.4		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.4		*	

Measurement GB = GAD-6 Borehole
Types: GS = GAD-6 Surface
DS = Delta Scintillometer
TC = Total Count Borehole
SS = Soil Sample
BH = Combined GAD-6 and
Total Count Borehole

Notes: DC = Depth of Contamination
* = No Soil Sample Taken
[n] = Reading Taken n-Inches
Above Floor or Ground
Date of Survey = 08-01-85
Team Leader = BJF

Table 3.2

Summary of Interior Gamma Exposure Rates

DOE ID No. GJ-02172-RS

1320 North 17th Street

Page 1 of 1

Location	Number of Readings Taken at Waist Level	Range at Waist Level (uR/h)	Mean at Waist Level (uR/h)	Number of Readings Taken at Surface	Range at Surface (uR/h)	Mean Surface (uR/h)
Crawl Space	*	*	*	*	15-17	*
Shed	*	*	*	*	15-16	*

* Gamma scans were performed to confirm the absence of interior contamination.

Table 4.1
Area and Volume Calculations
DOE ID No. GJ-02172-RS

Page 1 of 1

<u>AREA</u>	<u>CALCULATIONS(ft)</u>	<u>SF</u>	<u>DEPTH(ft)</u>	<u>CF</u>	<u>CUBIC YARDS</u>
EXTERIOR					
Concrete					
A	7 x 4 =	28			
	32 x 3 =	96			
		<hr/>			
		124	x 0.3 =	37	
				<hr/>	
	Volume of Concrete			= 37	= 37/27 = 1
Contaminated Fill					
A	7 x 4 =	28			
	32 x 3 =	96			
		<hr/>			
		124	x 0.7 =	87	
B	2 x 23 =	46	x 0.5 =	23	
				<hr/>	
	Volume of Fill			= 110	= 110/27 = 4
					<hr/>
	TOTAL VOLUME - EXTERIOR				= 5

See Appendix Figure 3.3 For Areas

=====

EXTERIOR

Remove identified residual radioactive material 4 cy @ \$14.50/cy (machine-open)	\$ 58
Remove/replace concrete sidewalk 124 sf @ \$3/sf	372
Replace areas with compacted roadbase 3 cy @ \$11.50/cy	35
Replace areas with topsoil 1 cy @ \$9.50/cy	10
Replace areas with sod 46 sf @ \$.50/sf	23
	<hr/>
TOTAL EXTERIOR	\$ 498
TOTAL INTERIOR	0
ACCESS CONTROL	100
	<hr/>
SUBTOTAL	\$ 598
CONTINGENCY @ 5%	30
	<hr/>
SUBTOTAL	\$ 628
CONTRACTOR OVERHEAD & PROFIT @ 50%	314
	<hr/>
GRAND TOTAL	\$ 942

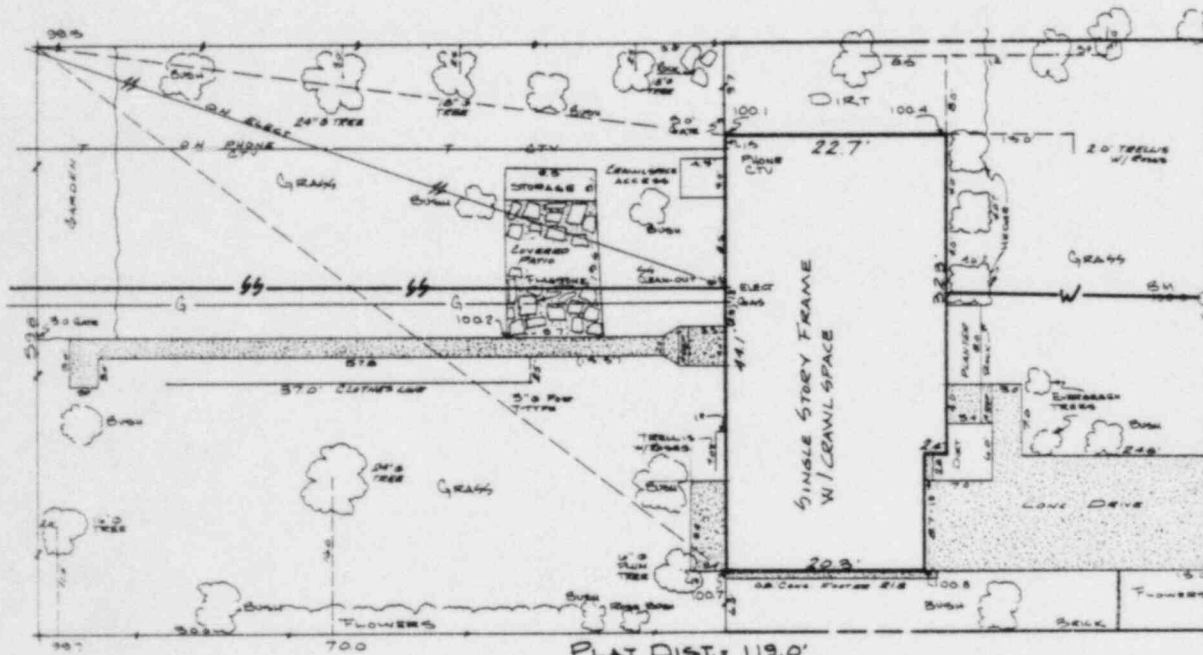
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LR081485
REA01272/REA-618/LMR

This is a detailed street map of the Grand Junction area in Colorado. The map shows a grid of streets including F K Road, Music Ln, Patterson Rd, Book Cliff Ave, Grand Ave, and others. A red circle marks the 'PROPERTY LOCATION' at the intersection of Grand Ave and 16th St. The map also shows the Colorado River, various ranches, and surrounding areas like Bonita and Morning Glory. A north arrow is in the bottom right corner.



PLAT DIST. = 400'



PLAT DIST. = 119.0'

LOT 18 BLOCK 4 ELMWOOD PLAZA
REFILE CITY OF GRAND JUNCTION,
MESA COUNTY COLORADO



FIGURE 2.2 SITE PLAN

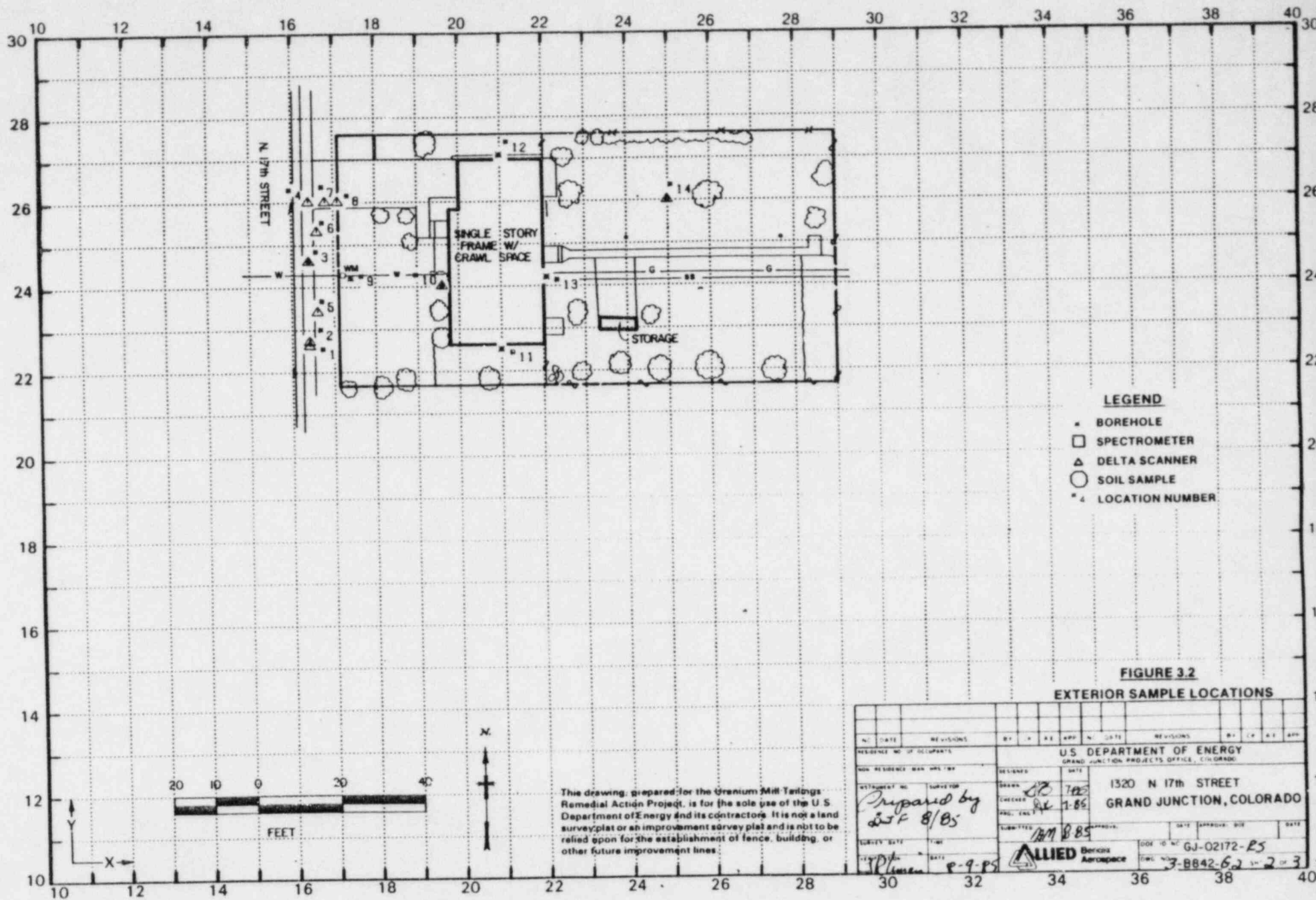


U.S. DEPARTMENT OF ENERGY	DOE ID NO.
GRAND JUNCTION PROJECT OFFICE, COLORADO	GJ02172RS
ADDRESS 1320 N 17TH STREET	ALLIED
GRAND JUNCTION, COLORADO	Grand Junction Engineering Corporation
SURV. MAP 7-22-85	DATE 1-13-86
DRAWING NO. 3-C-B-42 F1	SHEET 1 OF 1

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

N 17TH STREET





U.S. DEPARTMENT OF ENERGY
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT
GRAND JUNCTION VICINITY PROPERTIESOfficial Survey ReportProperty Address 1320 North 17th StreetProperty Owner Ellen Frost CasellaAddress of Owner (if different from above) 25192 La Estrada Drive, Laguna Niguel, CA.
92677Report Prepared By Billie Foust

I. PRESENCE/ABSENCE OF RESIDUAL RADIOACTIVE MATERIALS

1 1 No evidence of residual radioactive material on surveyed property.1 XXX 1 Residual radioactive materials found at the following locations:1 1 In open areas.1 XXX 1 Under or around exterior improvements.1 1 Under or around a typically nonoccupied structure.1 1 Under or around a typically occupied structure.

II. RESULTS OF RADIOLOGIC ASSESSMENT

1 1 Levels of radiation from residual radioactive materials, if any, do not exceed EPA Standards and no action is required under the Uranium Mill Tailings Remedial Action Project.1 XXX 1 Levels of radiation from residual radioactive materials exceed EPA Standards such that Remedial Action is recommended and will be accomplished, with your consent, as soon as budget and schedule permit.

cc:

G. A. Franz, III, GJ/CDE

J. Themelis, Mgr. UMTRA Proj. Off.

BIG = 11 (ORNL) uR/h
HCG = 51 uR/h

ALLIED Bendix
Aerospace

Bendix Field Engineering Corporation
Grand Junction Operations
Grand Junction, Colorado

Date: August 1, 1985

To: Files

From: Billie J. Foust

Subject: Team Leader Notes - GJ-02172-RS

Address: 1320 North 17th Street

Owner: Ellen Frost Casella
25192 La Estrada Drive
Laguna Niguel, California 92677

Tenant: Diane Forniker

Occupancy: Two

Team Members

B. Foust (Team Leader)	N. Wallace
S. Larsen	H. Lucero
R. Herman	H. Mattison
R. Beltz	

Instruments

See Equipment Summary sheet

Historical data shows contamination in the city sidewalk.

All utility lines were checked with the total count meter. The sewer line was located in the crawl space. The gas and water lines had been marked by Public Service. Holes were drilled on each side of the house to check the foundation.

The crawl space was scanned and found to be uncontaminated.

The city sidewalk has tailings beneath it. The gamma reading before removing the core was 500 counts per second (cps). The reading in the hole was 900 cps. There is a small contaminated section east of the city sidewalk that is contaminated, it measures 3- by 5-feet.

Dave Diss (Health and Safety) arrived at 0915 hours. Everything was fine.

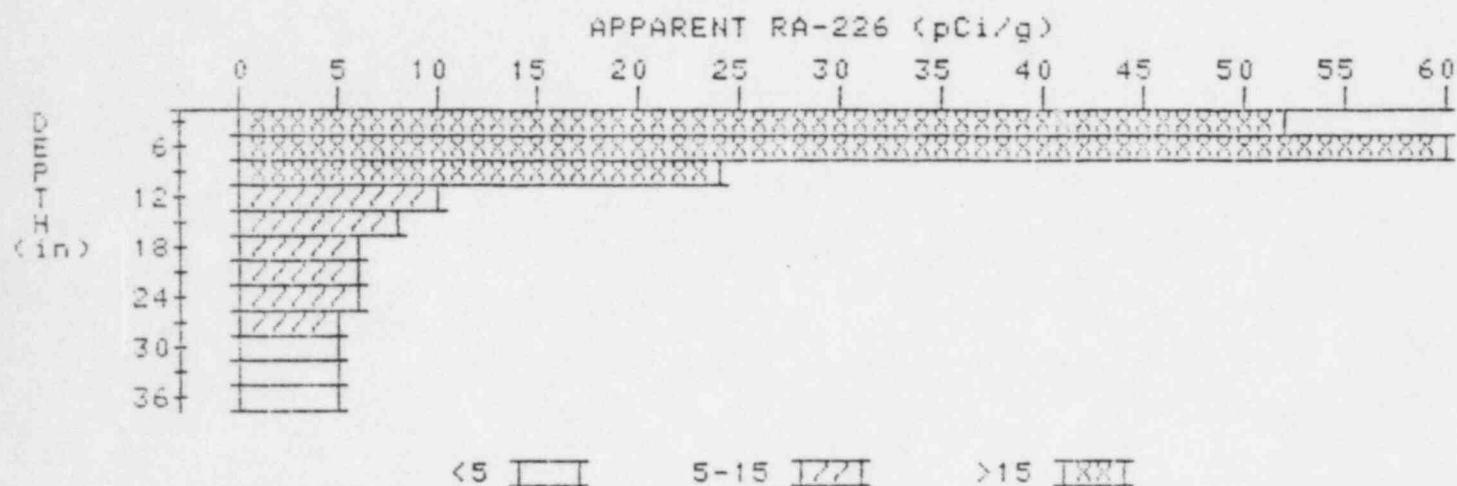
The survey was completed at 1030 hours and everyone was sent to Appleton to help Brenda Moody.

All team members were alpha scanned before departing the property.

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

3

PROPERTY NUMBER: GJ-02172-RS
HOLE NUMBER: 3
LOCATION: 164246

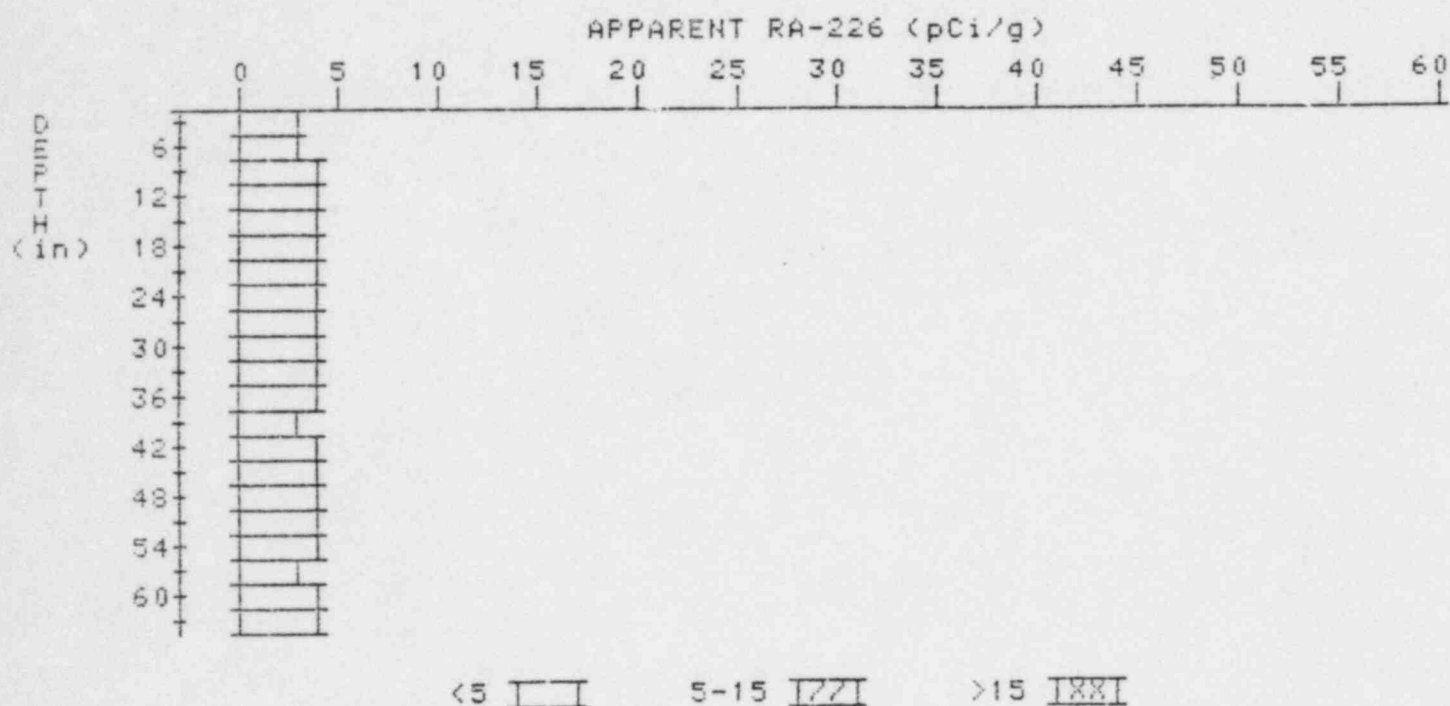


Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	52.0	52.0
6	54.3	93.1
9	34.8	24.1
12	21.3	10.5
15	13.9	8.2
18	9.7	6.0
21	7.6	5.8
24	6.5	5.8
27	5.8	5.4
30	5.3	4.9
33	5.0	4.6
36	4.9	4.9

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

9

PROPERTY NUMBER: GJ-02172-RS
HOLE NUMBER: 9
LOCATION: 174242



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.9	2.9
6	3.2	3.4
9	3.4	3.6
12	3.5	3.5
15	3.6	3.6
18	3.7	3.9
21	3.7	3.7
24	3.7	3.7
27	3.7	3.7
30	3.7	3.7
33	3.7	3.7
36	3.7	3.9
39	3.6	3.2
42	3.7	3.9
45	3.7	3.7
48	3.7	3.7
51	3.7	3.7

54
57
60
63

3.7
3.6
3.6
3.6

3.5
3.4
3.6
3.6

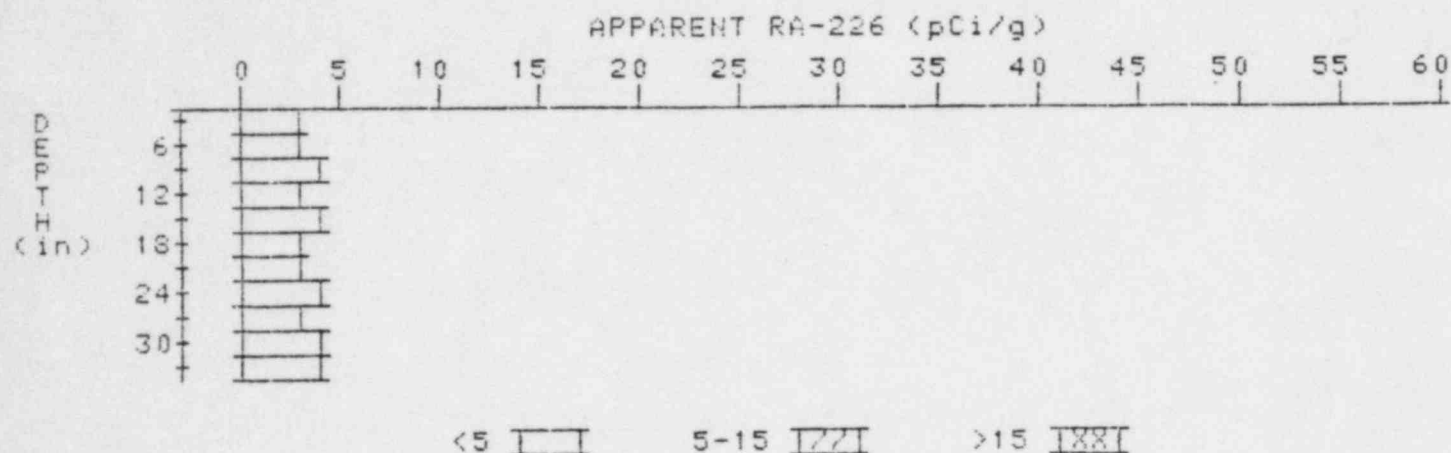
APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

10

PROPERTY NUMBER: GJ-02172-RS

HOLE NUMBER: 10

LOCATION: 196240



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.2	3.2
6	3.3	3.1
9	3.5	4.0
12	3.4	3.0
15	3.5	3.9
18	3.4	3.2
21	3.4	3.2
24	3.5	3.7
27	3.5	3.3
30	3.6	4.0
33	3.5	3.5

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

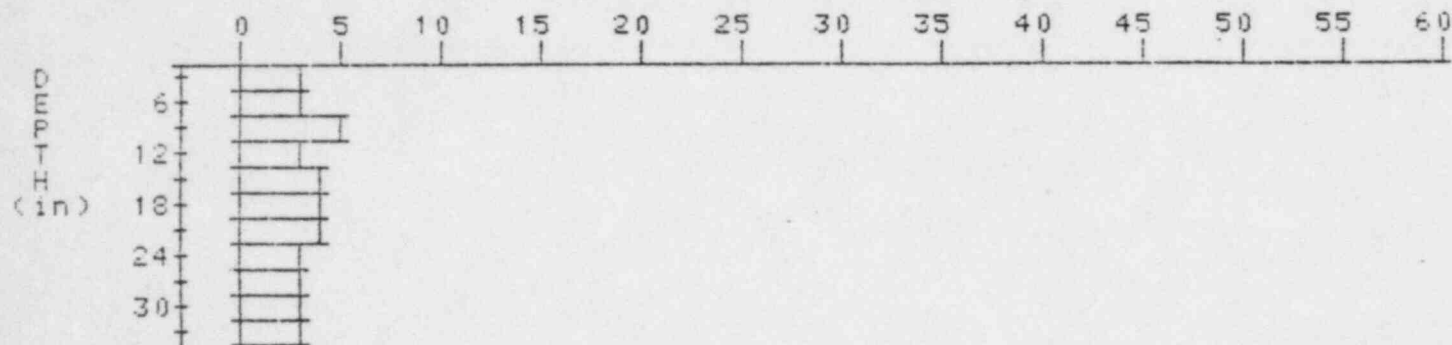
11

PROPERTY NUMBER: GJ-02172-RS

HOLE NUMBER: 11

LOCATION: 210225

APPARENT RA-226 (pCi/g)

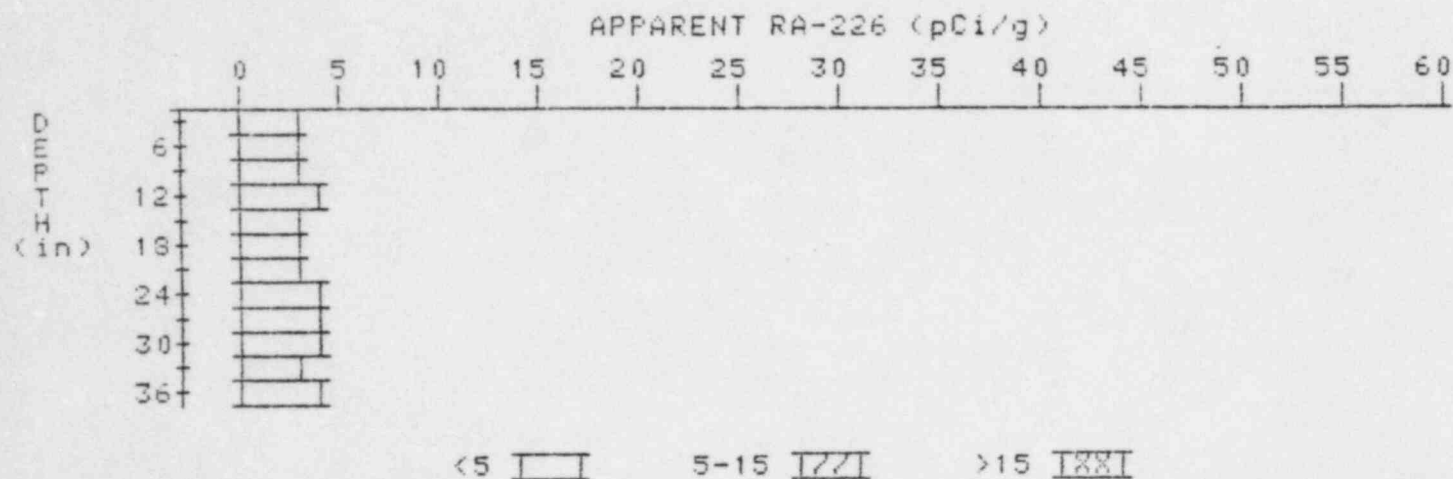


Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.1	3.1
6	3.4	3.4
9	3.7	4.6
12	3.5	3.1
15	3.5	3.5
18	3.5	3.5
21	3.5	3.7
24	3.4	3.2
27	3.4	3.4
30	3.4	3.4
33	3.4	3.4

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

12

PROPERTY NUMBER: GJ-02172-RS
HOLE NUMBER: 12
LOCATION: 210271

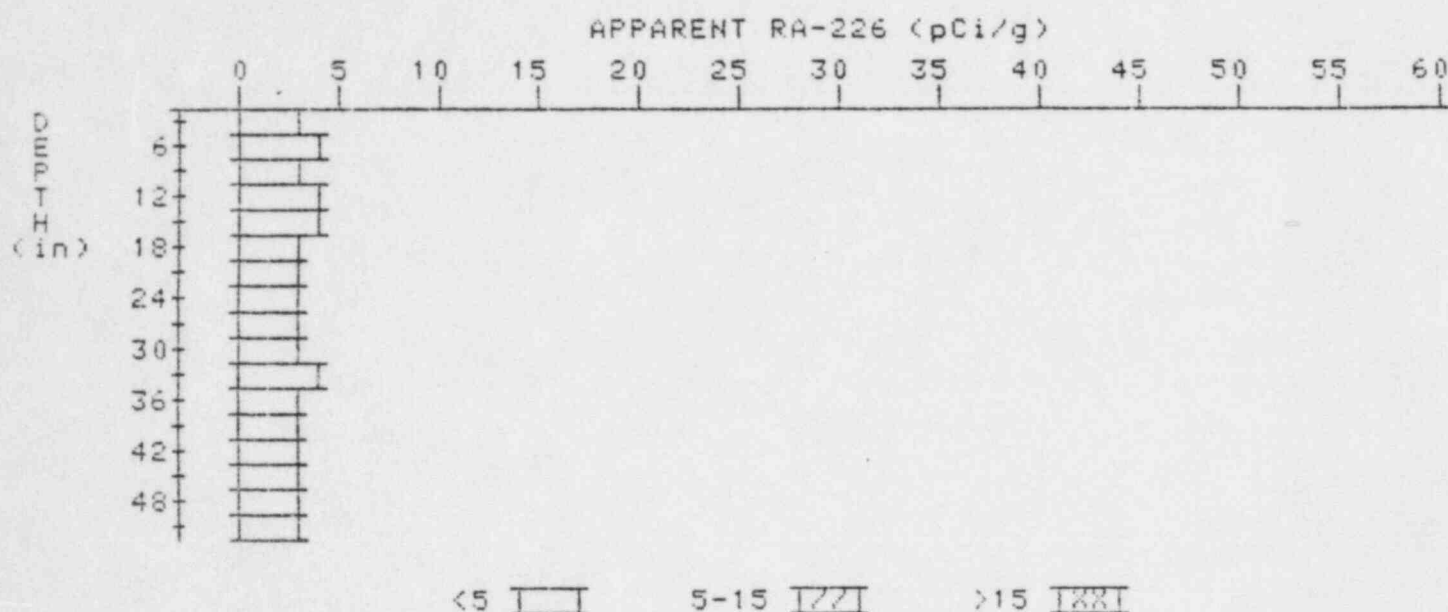


Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.0	3.0
6	3.2	3.4
9	3.3	3.1
12	3.5	4.0
15	3.4	3.2
18	3.4	3.4
21	3.4	3.2
24	3.5	3.7
27	3.5	3.5
30	3.5	3.7
33	3.4	3.0
36	3.5	3.5

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

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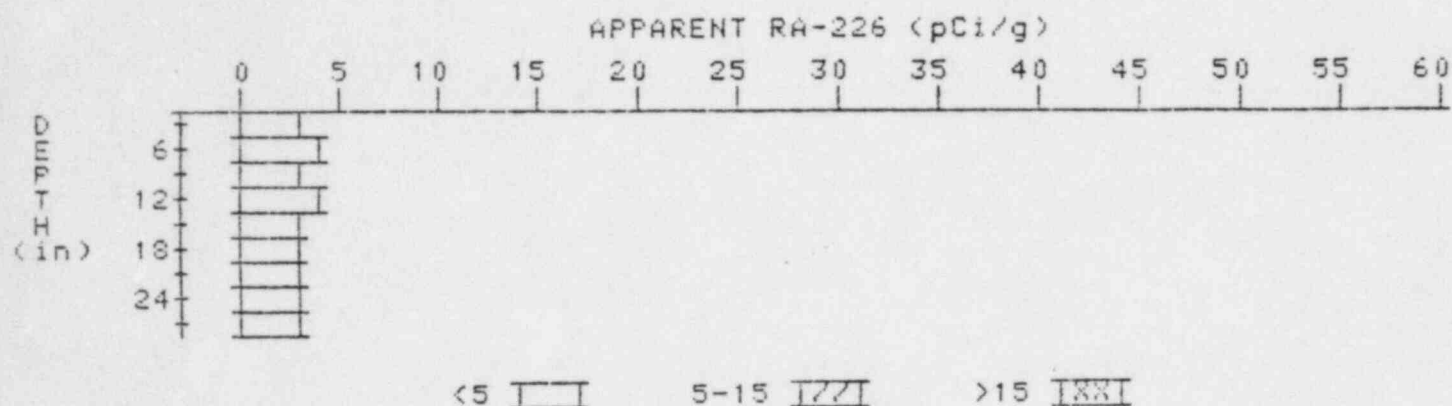
PROPERTY NUMBER: GJ-02172-RS
HOLE NUMBER: 13
LOCATION: 221242



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.9	2.9
6	3.2	3.6
9	3.3	3.1
12	3.5	3.9
15	3.5	3.7
18	3.4	3.2
21	3.4	3.4
24	3.4	3.4
27	3.4	3.4
30	3.4	3.2
33	3.5	3.9
36	3.4	3.4
39	3.3	3.1
42	3.3	3.3
45	3.3	3.3
48	3.3	3.5
51	3.2	3.2

APPARENT RADIUM-226 CONCENTRATION 14 DECONVOLUTION GRAPH

PROPERTY NUMBER: GJ-02172-RS
HOLE NUMBER: 14
LOCATION: 250260



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.9	2.9
6	3.2	3.6
9	3.3	3.3
12	3.4	3.6
15	3.4	3.4
18	3.4	3.4
21	3.4	3.4
24	3.4	3.4
27	3.4	3.4

