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Department of Energy

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Grand Junction, Colorado 81502-2567

July 16, 1985

WM Record File

WM Project 54

Docket No. _____

PDR ☒

LFDR _____

Sollenberger
(Return to WM, 623-SS)

LBH DEM
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Leo B. Higginbotham, Chief
Low Level Waste and Uranium Recovery Projects Branch
Division of Waste Management
Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Higginbotham:

REQUEST FOR NRC CONCURRENCE ON REA FOR 931 NORTH FIRST STREET IN GRAND
JUNCTION, COLORADO (GJ-00447-CS)

On November 27, 1984, this office forwarded two copies of the Radiologic and Engineering Assessment of the subject property to your office for review and comment. The property is a commercial location where construction rubble was utilized to fill an embankment from several feet in depth near the front of the property to sixteen feet in depth at the rear of the property. Uranium mill tailings were mixed with the construction debris, and appear at spotty locations throughout the property.

The embankment runs for a distance of one-half mile along First Street (from Grand Avenue to North Avenue), and there are at least ten additional locations where construction rubble mixed with uranium mill tailings is suspected of being utilized as fill material. It is estimated that the total volume which may be required to be removed is in excess of 48,000 cubic yards, and may cost as much as \$2.4 M to remove and replace the material. A site plan is attached showing the property locations and estimated quantities of materials.

The recommended remedial action was removal of contaminated material to clean material or to a depth of ten feet, whichever is less. The affected area would then be covered with clean fill to the original grade and the property restored to its original condition.

In a letter dated December 6, 1984, the Colorado Department of Health suggested that an option be considered which would remove all known deposits, and then sufficiently explore (via auger and/or backhoe) to the bottom of all known fill areas. This method would assure as much as possible that all major deposits would be identified and removed. A copy of CDH comments are also attached for informational purposes.

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PDR WASTE
WM-54

PDR

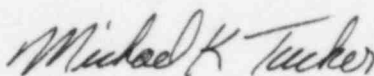
Leo B. Higginbotham

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July 16, 1985

The property owner has plans to build a small convenience store at this location, and is anxious for remedial action to be completed. This office has been reluctant to revise the REA until comments have been received from your office. As DOE is preparing to complete engineering and initiate remedial action at several commercial locations in FY-1986, we would appreciate receiving any comments your office may have on the subject property. If you have any questions, please don't hesitate to give me a call - FTS 322-9203.

Sincerely,



Michael K. Tucker
Project Engineer

7-16.MT:ss

Attachments: 3

cc w/attachments:

J. Themelis, ALO
R. Senz, ALO
A. Chapman, BFEC
L. Badini, Owner



Department of Energy

Grand Junction Area Office
Post Office Box 2567
Grand Junction, Colorado 81502

November 27, 1984

Mr. Leo B. Higginbotham, Chief
Low Level Waste and Uranium
Recovery Projects Branch
Division of Waste Management
Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Higginbotham:

REQUEST FOR NRC CONCURRENCE ON REA FOR GRAND JUNCTION VICINITY PROPERTY

Enclosed are two copies of the Radiological and Engineering Assessment for a property in Grand Junction, Colorado, which is being submitted for your review in accordance with the current understanding between the UMTRA Project Office and your office. This REA has been prepared by Bendix Field Engineering Corporation in accordance with the Final Vicinity Properties Management and Implementation Manual dated June, 1984, and this office has reviewed and endorsed the proposed remedial action. This property is:

Location

GJ-00447-CS

Address

931 North 1st Street

Review and concurrence of the recommended remedial action in a timely manner would be appreciated so that final engineering may be completed at this location. Feel free to call me at FTS 322-9203 for any further discussion.

Very truly yours,

Michael K. Tucker
Project Engineer

Enclosures
As stated

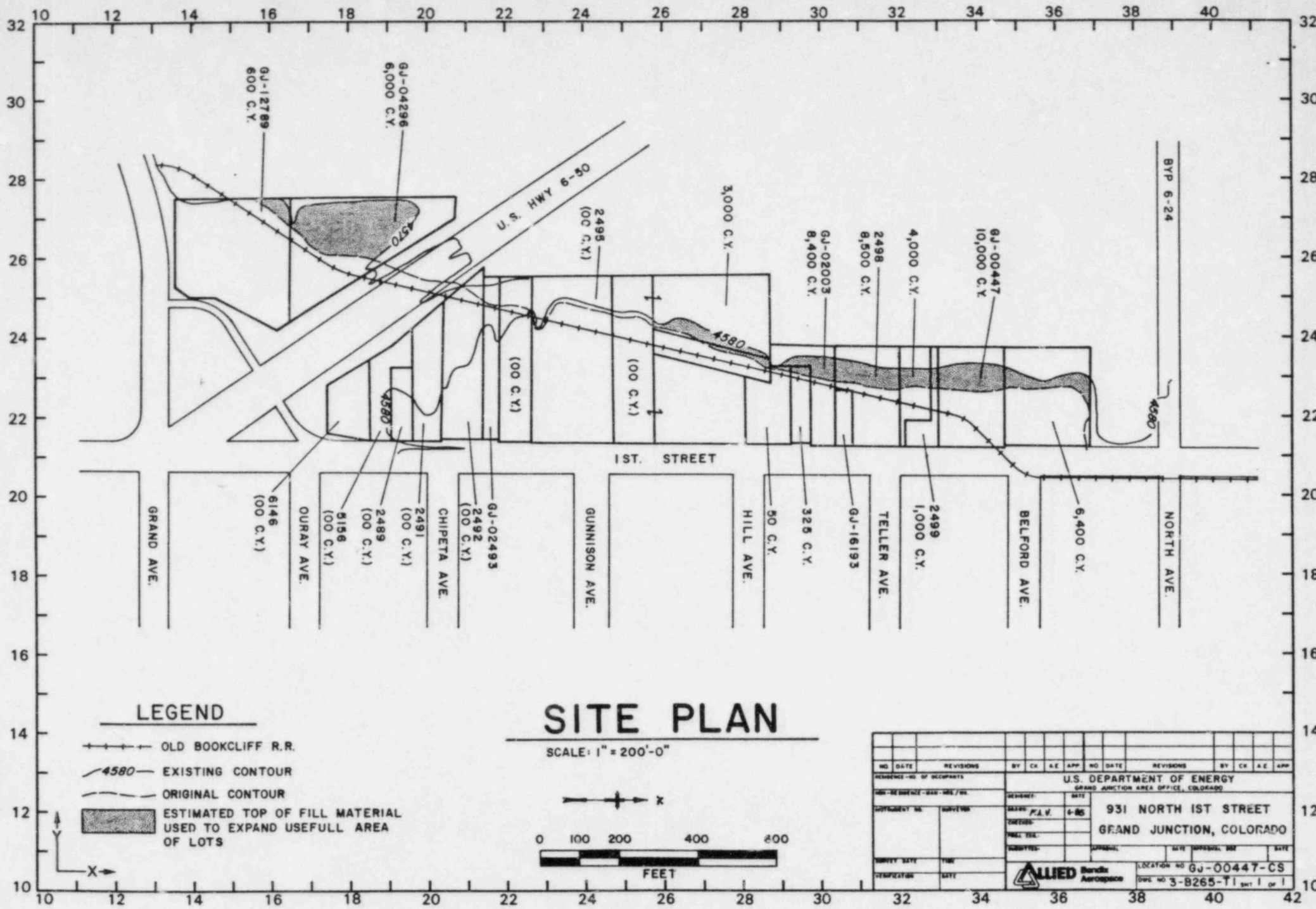
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J. Themelis - UMTRAPO/AL

tucker/evj
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Crew
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NO. DATE REVISIONS BY CK A.E. APP. NO. DATE REVISIONS BY CK A.E. APP.			
RESIDENCE - NO. OF OCCUPANTS			
SUN - SE SERVICE - GAS - WTR - DR.			
CONTRACT NO.		SURVEY NO.	
DESIGNED: F.A.V.		DATE: 6-85	
ENGINEER:		CHECKED:	
PAID: TEL.		APPROVAL:	
SURVEY DATE:		DATE:	
CERTIFICATION:		DATE:	
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION AREA OFFICE, COLORADO 931 NORTH 1ST STREET GRAND JUNCTION, COLORADO			
LOCATION NO. GJ-00447-CS		DWS NO. 3-B265-T1 SH1 OF 1	

COLORADO DEPARTMENT OF HEALTH

Richard D. Lamm
Governor



Thomas M. Vernon, M.D.
Executive Director

December 6, 1984

Mr. Michael Tucker
U.S. Department of Energy
P.O. Box 2567
Grand Junction, CO 81502

RE: Location Number 00447
931 N. 1st St., Grand Junction CO 81501

Dear Mr. Tucker:

A review of the REA submitted by DOE for the above noted location has been completed. Based on the information provided, we concur that this location is in need of remedial action.

The following information and comments were noted as a result of our review of the Draft REA (November, 1984) and are provided for your consideration and appropriate inclusion as needed into the basic plan of this location's RAA. If you need more specific information, please contact our Grand Junction staff.

1. The top of page 5 states: "... with an attached, covered, open canopy" This is a little confusing.
2. Page 5, paragraph 2 states: "the floor is assumed to be a 4 inch concrete slab with a stem wall perimeter foundation on a concrete footing." Fig. 2.3 says "8 inch concrete foundation wall assumed 30" depth on assumed 8" x 16" concrete footing." The data sheet from technical review and the bottom of page 32 of the REA says the slab on grade is 4" - 6" thick with a 12" stem wall and no footing.
3. The areas of borehole numbers 10, 39, 42, and 46 are to be removed 6" deep (Fig. 3.5), but the log data indicates contamination to greater than 12" for #10, to about 27" for #39, to greater than 21" (18.6 pCi/g total cts) for #42, and to greater than 15" (14.5 pCi/g total cts) for #46. At the latter two locations the total cts were still increasing with depth but the auger was unable to penetrate farther.

These depth discrepancies can be resolved during remedial action, but using the depths on Fig. 3.5 leads to unrealistically low estimates of removal volume and costs.

4. On pages 23 - 27 the comments incorrectly state DC = 0 for location numbers 39, 42, 44, and 48.
5. It would have been useful to have borehole data or a 12" delta reading for areas K and L.
6. The areas around boreholes #29 and #49 need more exploration, as data indicates a layer of contamination may exist about 30" below the surface.
7. Section 4.4 - We cannot agree with the recommendation for option #3 as no auger holes penetrated the volume that option #3 would leave behind. This potentially allows for unknown volumes of tailing to remain. The 10' of fill that would be placed over these deposits could be partially or completely removed if a basement structure was constructed in this area. An example of this situation is the structure constructed just one block to the south, on the same fill type deposits, that encountered significant tailing deposits at depths greater than 10'.

The basic design for remedial action in option #3 as defined in the REA is not acceptable.

We suggest that an option be considered which would remove all known deposits and then sufficiently explore (via auger and/or backhoe) to the bottom of all known fill areas. This method would assure as much as possible that all major deposits would be identified and removed. This method should be less expensive than option #1, and would represent a best effort to remediate this site.

Should you or Bendix require additional information regarding our review, please contact Elaine Brummett in our Grand Junction office.

Sincerely,



Albert J. Hazle, Director
Radiation Control Division

AJH:sk

cc: Location File