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G-000-101.99

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**STATUS UPDATE ON INVESTIGATION OF  
ELEVATED CONCENTRATIONS OF URANIUM  
IN OFFSITE SOILS**

**05-19-1989**

**WMCO/WMCO  
WMCO:R(RIFS):89-073**

**5  
LETTER**

From: C. R. Conner/6017

WMCO:R(RIFS):89-073

Date: May 19, 1989

Subject: STATUS UPDATE ON INVESTIGATION OF ELEVATED CONCENTRATIONS OF URANIUM  
IN OFFSITE SOILS

To : W. A. Weinreich

The enclosure provides an update of actions taken to date regarding the characterization of offsite surface soils which contain elevated concentrations of uranium. Changes to the status are identified with an asterisk.

Should you have any questions on any aspect of characterization or corrective actions, please contact me directly.



C. R. Conner, Manager  
RI/FS

CRC:dal

Enclosure

c: L. C. Bogar  
M. B. Boswell  
S. L. Bradley  
D. J. Brettschneider  
W. H. Britton  
D. J. Carr  
L. Elikan  
R. W. Kasperek  
P. E. Mohr

Central Files



**Elevated Concentrations of Uranium  
in Off-Site Surface Soils  
Status Report  
May 19, 1989**

**1. DOE Notification**

- o DOE (Ray Hansen) was notified verbally by C. R. Conner on 5/2/89.
- o A letter describing the findings and a fact sheet were transmitted to DOE on 5/3/89 (WMCO:R:89-034).

**2. Public Notification**

- o The property owner was notified of findings by M. B. Boswell on 5/3/89. The property owner agreed to allow FMPC access to the property for characterization.
- o A draft news release was prepared on 5/3/89 by Public Affairs. The news release was forwarded to DOE for approval.
- o The draft news release was revised on 5/8/89 to keep it current. The revised news release was forwarded to DOE.
- o The draft news release was revised on 5/12/89 and forwarded to the DOE-Headquarters to obtain approval for release to the media. The news release still has not been issued. This was, however, a topic discussed at the May 16, 1989 Community Meeting. In addition, Channel 9 has performed two interviews on the topic.

**3. EPA Notification**

- o USEPA and OEPA were notified of the findings on May 10, 1989 by correspondence from the DOE-FMPC.

**4. Characterization around Manholes**

- o ASI/IT were given notice to proceed on 5/3/89 by Jim Reafsnyder.
- o Confirmation analytical results for the original eight soil samples were obtained from the WMCO laboratories on 5/3/89. The results obtained were in good agreement with the original analytical results.
- o Isotopic analysis on the collected samples was completed by the WMCO Laboratory on 5/8/89. This data indicates that all samples were within the depleted or normal range.

- 0 ASI/IT mobilized on 5/4/89. Field measurements using SPA-3 and FIDLER probes were completed on 5/7/89.
- 0 Preliminary survey data and maps showing collected field radiological measurements were transmitted to WMC0 on 5/9/89.
- 0 A 100 foot x 200 foot area around manhole 180 was roped off by ASI/IT on May 14, 1989 at the request of the DOE-FMPC. Erosion control fabric was also placed at the perimeter of this area.
- 0 Soil sampling was completed at 53 locations with the collection of 159 discrete samples. Samples are being taken at 0-6, 6-12, and 12-18 inch intervals at each location. The samples were transmitted to the WMC0 laboratory for analysis. Sampling activities were complete at manhole 180 as of May 17, 1989.
- \* Sampling around manholes 180, 181 and 177 is complete. The estimated completion date for sampling at manholes 178 and 179 is 5/19 and manhole 176 is 5/20.
- \* Analytical work on the samples is ongoing through WMC0 laboratories. Ten percent of the samples will be split with IT Laboratories for quality assurance purposes. WMC0 laboratories can process ten to fifteen samples per day with limited overtime. It is therefore estimated that sufficient data will be available to begin engineering of potential cleanup activities on 6/7/89.
- 0 Analysis of the 159 samples taken at manhole 180 are scheduled to be completed by the WMC0 Lab by June 7. These results will be total Uranium and total Thorium only.
- 0 Sample preparation questions were discussed with WMC0 Lab personnel. Contacted J. Harvey at IT, Oak Ridge Lab for clarification. Samples are not to have stone or gravel removed prior to drying or grinding. This is consistent with WMC0 Lab and IT Lab practice.
- \* Results of 10 samples were issued by the WMC0 Lab on 5/19. (See Attachment) Three samples showed > 11 ppm total Uranium. Two samples were 28 ppm and one was 54 ppm.
- \* Samples are being made by WMC0 Maintenance and will be posted at manhole 180 on 5/22. Signs read: "Do Not Enter, Environmental Characterization Underway."

5. Cleanup Activities

- 0 An initial meeting to arrange for engineering of potential cleanup activities was conducted on 5/9/89.

- o Procedures for soil characterization, removal, transportation and certification were received from Bechtel National on 5/12/89. Bechtel National is prime contractor on the Formerly Utilized Sites Remedial Action Program. Copies of these procedures have been distributed to involved organizations.

**6. Determination of Root Cause**

- \* An evaluation of the root cause is being conducted by Environmental Engineering. An initial assessment points to a lack of routine maintenance for the manholes and covers. The results of this evaluation will be available by 5/22/89.

**7. Corrective Actions**

- o Repair of the manhole covers began on 5/15/89. Repairs were completed on 5/16/89.
- o Interim corrective actions are being identified to insure that overflow of the manholes will not recur. The actions will be identified as part of the Item 5 report.

By LJT Date 5-7-89 Subject Manhole 180 Sample Sheet No. 1 of 1  
 Chkd. By \_\_\_\_\_ Date \_\_\_\_\_ Location \_\_\_\_\_ Proj. No. 30337 09-

(06140-06142) MH-180-1 (06148-06148) MH-180-3 (06149-06151) MH-180-4 (06152-06154) MH-180-5 (06155-06157) MH-180-6

COMPLETION DATES  
 MH-180-1 thru MH-180-5 (05/11/89)  
 MH-180-6 thru MH-180-16 (05/02/89)  
 MH-180-17 thru MH-180-32 (05/16/89)

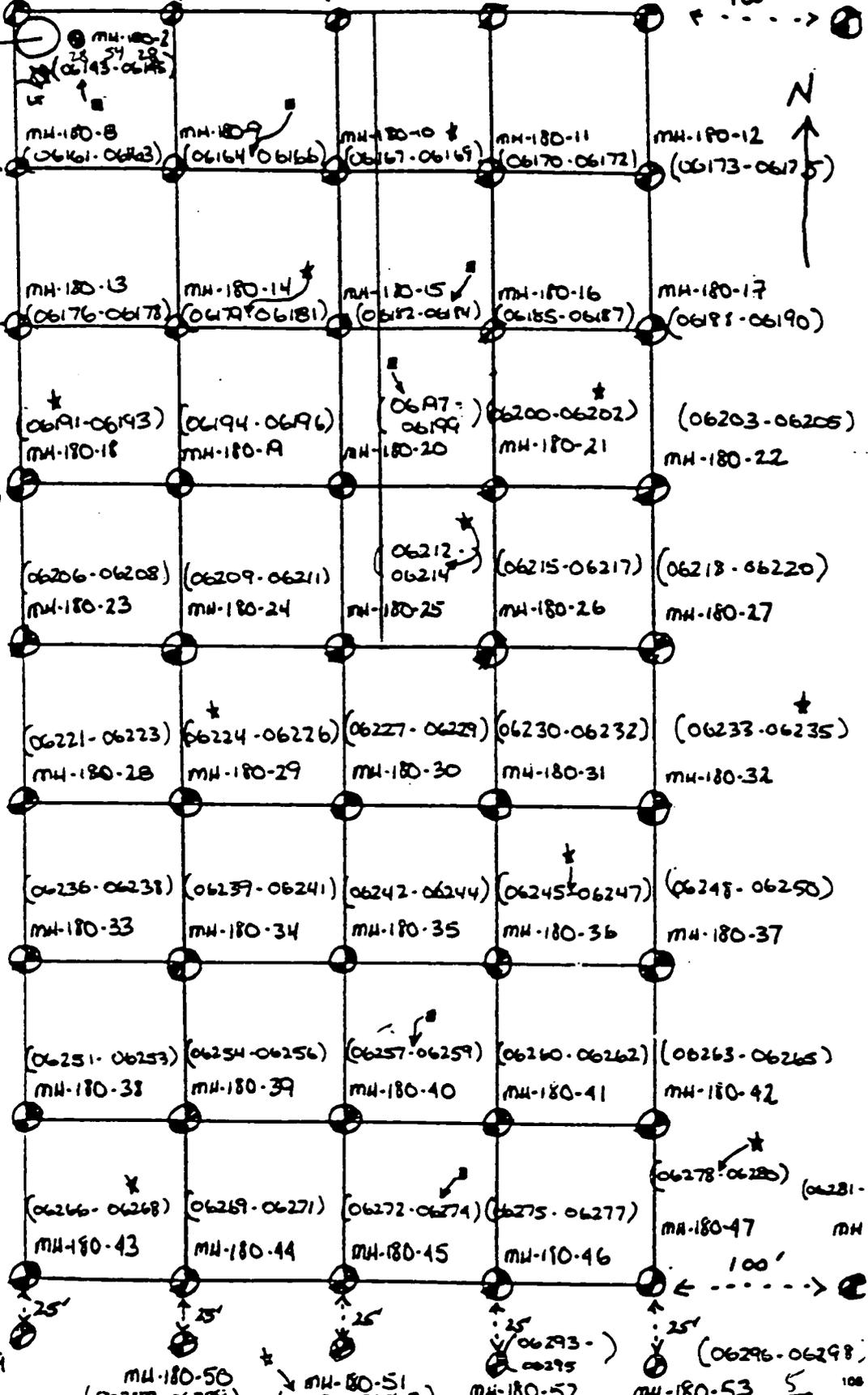
COMPLETED 5/16/89 25'

NOTE:

5/17/89 - START SAMPLING AT MH-181, AS TIME ALLOWS, MH-177

5/18/89 - FINISH MH-177, START MH-178.

- - SAMPLE LOCATION
- 53 TOTAL
- 159 SAMPLES
- ★ 13 IT/WACO SPIT
- 6 NACO
- 19 S&U, S&T, T&U.
- 140 - TOT. U, TOT. T.U.



MH-180-49 (06284-06286) MH-180-50 (06287-06289) MH-180-51 (06290-06292) MH-180-52 (06293-06295) MH-180-53 (06296-06298)