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11. Document Type: CHEMICAL ANALYSES RESULTS FROM WATER SAMPLES COLLECTED FROM THE GROUND-WATER MONITORING WELLS NEAR BUILDINGS 500 AND 512 AT THE FOREST GLEN SECTION, WRAMC, 13 MARCH 1990

DEPARTMENT OF THE ARMY
U.S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5422

REPLY TO
ATTENTION OF

HSHB-ME-SG (40)

MEMORANDUM FOR Commander, Walter Reed Army Medical Center,
ATTN: HSHL-EH/EPS (Mr. Dennis Koutavis),
Building 1, Room C-0013, Washington, DC
20307-5001

SUBJECT: Chemical Analyses Results from Water Samples Collected from the Ground-water Monitoring Wells Near Buildings 500 and 512 at the Forest Glen Section, Walter Reed Army Medical Center (WRAMC), on 13 March 1990

1. References:

a. Memorandum, USAEHA, HSHB-ES-SG, 30 November 1989, subject: Ground-water Quality Study No. 38-26-0354-90, Forest Glen Section, Walter Reed Army Medical Center, Washington, DC, 19-30 June 1989.

b. FONECON between Mr. James Prince, your installation, and Mr. David Bayha, this Agency, 26 February 1990, subject: Resampling of Ground-water Monitoring Wells at the Forest Glen Section, WRAMC.

2. Mr. James Prince received a request from the State of Maryland Department of the Environment, Waste Management Administration, to resample the 10 ground-water monitoring wells which were installed and sampled by personnel from this Agency during 19-30 June 1989 (reference 1a).

3. All 10 ground-water monitoring wells were resampled on 13 March 1989 by representatives from this Agency. The water levels in each well were not determined due to a faulty water-level indicator; however, all the wells were purged using the calculations in Appendix E of reference 1a prior to collecting water samples. A new precleaned, plastic wrapped, disposable, one-liter capacity, inert polyethylene bailer and a new clean rope were used for each well to prevent cross-contamination from well to well.

4. Prior to bailing each well, a graduated, clear, acrylic bailer was used to determine the depth of product floating on the water surface. No sheen was observed in well Nos. 1, 2, 3, 4, 9, and 10; however, a small, unmeasurable sheen was observed in well Nos. 5, 6, and 7.

The acrylic bailer was used to determine the depth of product floating on the water surface in well No. 8. Following bailer withdrawal from well No. 8, the bailer was full of floating product and no accurate measurements were possible.

5. The following table presents the analytical results from the samples collected on 13 March 1990, and they are compared to the results from reference 1a.

TABLE. AMOUNT OF NO. 2 FUEL OIL DETECTED IN GROUND-WATER SAMPLES

Well No.	Sample Collected June 89	Sample Collected March 90
1	590	142
2	<100	<100
3	<100	<100
4	<100	<100
5	130	3,000
6	3,890	3,170
7	180	790
8	3,950	21,900*
9	<100	<100
10	<100	<100

* This sample had a layer of oil floating on top of the water. However, only the concentration of oil in the water was analyzed.

All parameters are in parts per billion (ppb).

6. The amount of No. 2 fuel oil in the samples from well Nos. 5, 7, 8 has increased and the amount of No. 2 fuel oil in the samples from well Nos. 1 and 6 has decreased.

HSHB-ME-SG
SUBJECT: Chemical Analyses Results from Water Samples Collected from the Ground-water Monitoring Wells Near Buildings 500 and 512 at the Forest Glen Section, Walter Reed Army Medical Center (WRAMC), on 13 March 1990

7. The analytical data presented herein should be coordinated with the UST Division of Maryland's Department of the Environment for their information.

FOR THE COMMANDER:

PAUL R. THIES
LTC, MS
Chief, Waste Disposal Engineering Division

CF:
Cdr, HSC, ATTN: HSCL-P
Cdr, WRAMC, ATTN: PVNTMED Svc
Cdr, USAEHA-N

Writer DCB 24 Apr 90
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