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(804) 322-4793

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MAY 12 1994

CERTIFIED MAIL RETURN RECEIPT REQUESTED

United States Environmental Protection Agency,
Region IV
Waste Management Division
Attn: Ms. Gena Townsend
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Re: RI/FS Project Plans for Operable Unit No. 6 Meeting Minutes (May 2 and 3, 1994) MCB Camp Lejeune, North Carolina

Dear Ms. Townsend:

Attached are the meeting minutes for the May 2 and 3, 1994 meeting in Atlanta, Georgia. Any questions concerning these responses should be directed to Ms. Linda Berry at (804) 322-4793.

Sincerely.

L. A. BOUCHER, P.E.
Head
Installation Restoration Section
(South)
Environmental Programs Branch
Environmental Quality Division
By direction of the Commander

Attachment

Copy to:(w/attachment)
NC DEHNR (Mr. Patrick Watters)
MCB Camp Lejeune (Mr. Neal Paul)(w/o attachment)
Baker Environmental (Mr. Ray Wattras, Mr. Rich Bonelli)

Blind copy to:
1823 (LGB) 2 copies w/attachment)
18S
LGBDoc: minutes

MEETING MINUTES, MAY 2 and 3, 1994
FINAL SAMPLE STRATEGY PLAN FOR CTO-0246
OPERABLE UNIT NO. 6 (SITES 36, 43, 44, 54, AND 86)
MCB, CAMP LEJEUNE, NORTH CAROLINA

A Remedial Investigation/Feasibility Study (RI/FS) scoping meeting was conducted on May 2 and 3, 1994 in Atlanta, Georgia. The purpose of this meeting was to discuss the approach for conducting the field investigations at Operable Unit No. 6, as presented in the Final Sample Strategy Plan (SSP).

The following personnel attended this meeting:

- Ms. Linda Berry, P.E., NTR, LANTDIV
- Ms. Gena Townsend, USEPA Region IV
- Ms. Jennifer Herndon, USEPA Region IV
- Mr. Lynn Wellman, USEPA Region IV
- Mr. Reginald Rogers, USEPA Region IV
- Mr. Patrick Watters, NC DEHNR, Superfund Section
- Mr. Walter Haven, MCB Camp Lejeune EMD
- Mr. Raymond Wattras, MCB Camp Lejeune Activity Coordinator, Baker
- Mr. Richard Bonelli, Project Manager, Baker

A summary of the pertinent issues are summarized below, by site.

Discussion of Site 36

- Mr. Bonelli and Mr. Wattras of Baker discussed briefly the site history, provided details of observations made during the site visit, and the presented the results of previous investigations. Mr. Bonelli indicated that the actual site encompasses a larger area than what was investigated during the initial assessment study. This statement was based on review of the historical aerial photographs and observations made during the site visit. Mr. Bonelli indicated that based on the sampling results of the initial investigations, metals appeared to be the primary contaminants of concern at the site. Mr. Bonelli also suggested that the reason why volatile organic compounds (VOCs) were not detected in groundwater during the previous investigations is that the well screens may have been installed below the water table (based on a cross section figure in the ESE report).

- After this discussion, Mr. Bonelli presented the proposed scope of work which included: shallow and deep monitoring well installation; soil, groundwater, surface water, sediment, fish, benthic organism, and drum sampling; and test pit trenching.

- Several changes in scope from the Final SSP were discussed. Proposed shallow well 36GW08 will be moved to a location east of the Formerly Cleared Area. Also, proposed shallow well 36GW09 will be moved to a location within the Open Field. Temporary shallow wells will be installed near the drum areas along the unnamed tributary.

- Ms. Townsend discussed the possibility of deep groundwater flowing underneath Brinson Creek and potentially impacting shallow groundwater downgradient of the site. Mr. Bonelli indicated that groundwater quality data from the proposed deep

wells would be evaluated first before installing any additional deep wells downgradient across Brinson Creek.

- Mr. Ray Wattras discussed the surface water/sediment, and fish/benthic investigations which are currently underway at the site. These investigations are being conducted concurrently with Site 35 investigations (located approximately 1/4 mile northwest of Site 36). Mr. Wattras indicated that the investigations were being conducted now to save on mobilization costs and to provide data for a regional ecological study of the Brinson Creek water shed.

- Mr. Lynn Wellman discussed the possibility of compiling data for a base-wide ecological study which would include all water shed areas of MCB, Lejeune. This study will be considered at a future date. Mr. Wellman concurred with the investigative approach for the site.

- Ms. Jennifer Herndon suggested that subsurface soil samples also be collected at the drum areas. Mr. Bonelli indicated that an attempt will be made to collect the subsurface samples although it may not be possible due to the shallow water table near the swampy areas. Ms. Herndon also suggested that a shallow/deep well cluster be installed downgradient of the Former Dump Area. Mr. Bonelli indicated that groundwater quality data from the proposed deep wells would be evaluated first before installing any additional shallow/deep well clusters. In addition, Mr. Bonelli indicated that staff gauges will be installed in Brinson Creek and the unnamed tributary to evaluate shallow groundwater flow patterns.

Discussion of Site 43

- The overall investigative approach for Site 43 was generally acceptable.

- Ms. Townsend suggested that groundwater samples be collected from the existing wells first before abandonment. This data will be evaluated to determine whether hazardous substances were introduced into the groundwater by trespassers. The locations of the replacement wells will be based on these findings.

- Ms. Herndon suggested that another deep well be installed near the southern portion of the site. Mr. Bonelli indicated that the contaminants of concern (based on the site inspection investigation) were metals and, therefore, an additional deep well would not be necessary at this time. An additional deep well, however, may be installed based on the results of the preliminary groundwater samples. In addition, Ms. Herndon suggested that the replacement well 43GW02 be installed on the northeast side of the mounded soil area. Mr. Bonelli indicated that the proposed well will be moved to this location.

- Mr. Wellman asked whether field parameter measurements would be taken during the surface water/sediment investigations. Mr. Bonelli indicated that pH, temperature, specific conductance, dissolved oxygen, and salinity measurements will be obtained during the surface water investigation. TOC will be analyzed for sediment samples.

Discussion of Site 44

- The overall investigative approach for Site 44 was generally acceptable.

- Mr. Bonelli indicated that an upgradient shallow/deep well cluster located between Sites 43 and 44 will serve as background sample stations for both sites.

- Ms. Herndon suggested that another surface water/sediment station be added at the location where surface water runoff drains into Edwards Creek on the northwestern portion of the site. Mr. Bonelli indicated that another surface water/sediment station will be added to this location.

Discussion of Site 54

- The overall investigative approach for Site 54 was generally acceptable.

- Mr. Bonelli indicated that a surface water/sediment station may be added at the location where the site drainage ditches discharge into a surface water body. At this time, it is uncertain where this discharge point is located. Baker will attempt to locate this discharge point within the next few weeks.

- Ms. Herndon inquired about why subsurface soil samples were not proposed for this site. Mr. Bonelli indicated that subsurface soil samples will be collected following the field screening activities. Ms. Herndon suggested that a percentage of the samples be analyzed for full analysis.

Discussion of Site 86

- The overall investigative approach for Site 86 was generally acceptable.

- Proposed intermediate/deep well cluster 86GW17IW/17DW will be moved north to a location east of the site. These wells will provide groundwater quality data upgradient of the site to determine if an off site source is impacting the site.

- Mr. Bonelli indicated that groundwater samples collected from wells east, south, and west of the site will be analyzed on a seven day turnaround (VOCs only) to determine if any additional wells will be required to further evaluate the extent of contamination.

- Mr. Wattras indicated that if the former ASTs are not proven to be the source of TCE groundwater contamination, a "building by building" records search may be warranted. Mr. Wattras also indicated that there are two supply wells within MCAS that are contaminated with TCE. It is unknown whether this site is the source of either TCE problem.