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JUN 6 1986

GROUNDWATER SECTION
WILMINGTON REGIONAL OFFICE

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WILMINGTON REGIONAL OFFICE
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DIVISION OF ENVIRONMENTAL MANAGEMENT

GROUNDWATER SECTION

June 5, 1986

MEMORANDUM

TO: Ted Taylor, Ph.D., Toxicologist
Environmental Epidemiology Branch

FROM: Douglass Dixon *WDD*
Groundwater Section

RE: Risk Assessment For Contaminants Detected In Soils
And Groundwater At Tarawa Terrace I, Camp Lejeune
Marine Corps Base, Onslow County

We have received a risk assessment request from our Wilmington Regional Office (WRO) in reference to contaminants initially detected in several community water supply wells at the above referenced location. Use of contaminated wells was discontinued during February 1985 and after a four month period of imposed water conservation measures, an emergency water line was extended to the area.

Subsequent investigation revealed the presence of several organic compounds in groundwater underlying the general site area. Please refer to Table 4 (attached) for identification and detected concentrations of these compounds.

Sampling of septic tank sludge and soils under and around a nearby dry cleaning facility also revealed the presence of several organic compounds associated with dry cleaning operations. These compounds and related concentrations are shown in the attachment identified as Appendix A.

The WRO has recommended that the responsible party undertake to remove the contaminated waste, soil, and soil absorption system to an authorized disposal site so as to reduce or eliminate any potential health threat and minimize additional environmental degradation. In order to assist us in establishing the scope or magnitude of cleanup (risk management procedures) required, please provide a risk assessment for the identified contaminants.

CLW

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If you should have any questions or need additional information, please contact me.

Attachments

WDD/bjg

cc: Incident Management Files w/attachments
Chuck Wakild/Rick Shiver w/attachments
Bill Meyer w/attachments

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LAW & COMPANY
Consulting and Analytical Chemists

APPENDIX A

ESTABLISHED 1903

Main Office
 1711 Castle Street
 P.O. Box 629
 Wilmington, N.C. 28402

RICHARD SPIVEY, President
 919-762-7082 919-762-8956
 TWX 510-937-0280

REPORT DATE: 4-22-86

LAW ENGINEERING TESTING COMPANY
 P.O. BOX 278
 WILMINGTON, NORTH CAROLINA 28402
 ATTN: CHARLES F. STEHMAN

DATE RECEIVED: 4-08-86
 DATE COLLECTED: 4-08-86
 COLLECTED BY: CUSTOMER
 LAB I.D. # EW 3845

LETCO Job No: J-473-86-1623

SAMPLE DESCRIPTION: SEPTIC TANK SLUDGE

| TESTS/SAMPLES | WATER | | SEPTAGE | |
|--------------------------|------------|---------------|-----------|-----------|
| | ABC TOP | ABC BOTTOM | ABC #1 | ABC #2 |
| 1,1 DICHLOROETHYLENE PPM | <.1 | 24 | <.1 | <.1 |
| 1,2 DICHLOROETHYLENE PPM | <.1 | 15 | 11.3 | .4 |
| TRICHLOROETHYLENE PPM | 22 | 9.5 | 4.0 | .1 |
| TETRACHLOROETHYLENE PPM | 1.0 | 1402 | 85 | 1.4 |
| TESTS/SAMPLES | ABC #3 | ABC #4 | ABC #5 | ABC #6 |
| 1,1 DICHLOROETHYLENE PPM | <.1 | <.1 | <.1 | <.1 |
| 1,2 DICHLOROETHYLENE PPM | .9 | 7.3 | 2.3 | .9 |
| TRICHLOROETHYLENE PPM | .5 | 2.3 | .4 | .5 |
| TETRACHLOROETHYLENE PPM | 2.3 | 18.4 | 2.0 | 1.4 |
| TESTS/SAMPLES | ABC #7 | ABC #8 | ABC #9 | |
| 1,1 DICHLOROETHYLENE PPM | <.1 | <.1 | <.1 | |
| 1,2 DICHLOROETHYLENE PPM | <.1 | 8.1 | 3.9 | |
| TRICHLOROETHYLENE PPM | .9 | 14 | .4 | |
| TETRACHLOROETHYLENE PPM | 1.2 | 404 | <.1 | |

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MAY 14 1986

CHEMIST: Jolly Bidwan

TOTAL AMOUNT: 805.00