



DEPARTMENT OF THE NAVY
NAVY ENVIRONMENTAL HEALTH CENTER
620 JOHN PAUL JONES CIRCLE SUITE 1100
PORTSMOUTH VA 23708-2103

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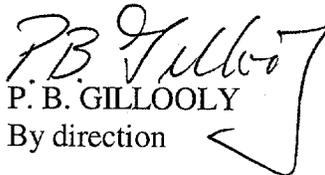
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Ser EP4367/ 00320

15 APR 2002

From: Commanding Officer, Navy Environmental Health Center
To: Commanding Officer, Atlantic Division, Naval Facilities Engineering Command
(Channing Blackwell), 1510 Gilbert Street, Norfolk, VA 23511-2699
Subj: FINAL CLOSE OUT REPORT REVIEW, OPERABLE UNIT NO. 7 (SITES 1 AND 28),
MARINE CORPS BASE CAMP LEJEUNE, CAMP LEJEUNE, NC
Ref: (a) Baker Environmental, Inc. Letter of Transmittal S.O. No. 26007-120-0000-RA100
of 21 Jan 02

1. Per reference (a), we have completed a review of the subject document and forward our comments to you as enclosure (1).
2. Please complete and return enclosure (2) as your comments are needed to continually improve our services to you.
3. If you require additional assistance, please call Mr. Kenneth Gene Astley at (757) 953-0937 or Mr. David McConaughy at (757) 953-0942. The DSN prefix is 377. The e-mail addresses are: astleyg@nehc.med.navy.mil and mcconaughyd@nehc.med.navy.mil.


P. B. GILLOOLY
By direction

Copy to: (w/o Encl (2))
CNO (N-453)
NAVFAC (ENC-KPB)
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**MEDICAL REVIEW OF
DRAFT CLOSE OUT REPORT
OPERABLE UNIT NO. 7-SITES 1 AND 28
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

Ref: (a) Navy Interim Final Policy on the Use of Background Chemical Levels,
Ser N453E/OU59690, 18 Sep 2000

General Comments:

1. The document entitled "Draft Close Our Report Operable Unit No. 7- Sites 1 and 28 Marine Corp Base Camp Lejeune, North Carolina," was provided to the Navy Environmental Health Center (NAVENVIRHLTHCEN) for review on 28 January 2002. The report was prepared for the Atlantic Division, Naval Facilities Engineering Command by CHM2 Hill and Baker Environmental, Inc.
2. This is a well-written, readily understandable report. We appreciate the format of the report both from a technical and communication perspective.

Review Comments and Recommendations:

1. Page 4, Section 3.1.4, "Long Term Monitoring Program"
Table 1-2, "TCE [trichloroethene] and Vinyl Chloride in Groundwater-Site 1"

Comments:

- a. The text states on Page 4 that "The primary objective of the confirmatory sampling was to evaluate TCE levels as stipulated in the ROD [Record of Decision]. Table 1-2 provides the concentrations of TCE and **vinyl chloride** detected in monitoring wells 1-MW10 and 1-MW17 from the beginning of LTM [long term monitoring] to the completion of LTM."
- b. The sampling results for vinyl chloride should not be provided in this close out report if vinyl chloride was not found to be a contaminate of concern in the ROD.

Recommendation: Do not include the sampling results for vinyl chloride in this close out report.

2. Page 5, Section 3.2.2, "Record of Decision"

Comments:

a. The text states on Page 5 that "As stipulated in the final ROD signed for OU [operable unit] 7 in 1995, the primary objective of the remedial action at Site 28 is to address lead and manganese contamination in the shallow groundwater aquifer (Baker, May 1996). The ROD identifies the implementation of a LTM Program as the selected remedy for ground water. VOC [volatile organic compounds], lead and manganese analysis was required by the ROD with lead and manganese being specifically mentioned with a 15 ug/L [micrograms per liter] and 50 ug/L remedial level goal, respectively. **The ROD states that it does not expect the remediation level of manganese to be achieved due to natural occurrence of high levels of this inorganic.**"

b. Reference (a) states that both naturally occurring and anthropogenic chemicals that are present at levels below background should be eliminated from consideration in the risk assessment.

Recommendation: If the background survey for this site found that naturally occurring manganese is present at levels below background, then it should be eliminated from consideration in the risk assessment. The Navy policy for conducting a background evaluation is located on the Navy Risk Assessment Web Site. You may access the web site by going to <http://www.nehc.med.navy.mil/ep/index.htm> and clicking on "Navy Guidance for Conducting Human Health Risk Assessment" located at the bottom of the page. The Navy Policy link is located on the left side of the guidance home page.