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MCB CAMP LEJUENE  
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LETTER REGARDING NON-DISCHARGE PERMIT MCB CAMP LEJEUNE NC  
1/26/1993  
O'BRIEN & GERE ENGINEERS, INC



**O'BRIEN & GERE**  
ENGINEERS, INC.

26 January 1993

Commander  
Atlantic Division  
NAVFACENGCOM  
Norfolk, Virginia 23511

ATTN: Trueman Seamans  
CODE: 1821

File: 3543.009

Re: NCDEM Non-Discharge Permit

Dear Trueman:

Per our telephone conversation on 25 January, the North Carolina Division of Environmental Management (NCDEM) was contacted concerning their comments on the permit application for non-discharge associated with the ground water remediation systems at Tarawa Terrace, MCB Camp Lejeune and the JP-5 Line Area, MCAS New River. Please refer to the 5 January letter sent to you by NCDEM as the following addresses their numbered comments.

1. A cartridge filter has been selected for this application. Ens. B.W. Rowse, AROICC, Camp Lejeune requested O'Brien & Gere to review a catalog cut of a Filter Specialist, Inc. filter. The activity should be able to provide the specification for this filter to NCDEM.
2. Biweekly water quality analysis of the carbon contactor effluent should be done for volatile petroleum hydrocarbons and solvents by purge and trap / GC, as outlined in 40 CFR 136 prior to the effluent entering the sanitary sewer. This should apply to both systems. In addition, pressure gauges are recommended on the carbon contactor influent and effluent lines that are capable of reading at least 7.5 psi. The carbon contactor manufacturer should be contacted to determine the particular pressure profile which would indicated impending breakthrough of the carbon.
3. The two Tarawa Terrace system recovery wells have the potential to produce up to 10 gpm as opposed to the 5 gpm at the JP-5 Line Area system. Therefore, the Tarawa Terrace system has a design flow of 28,800 gpd as opposed to the 14,400 gpd at JP-5 Line Area. The Tarawa Terrace recovery system drawdown ejectors should be capable of variability up to 10 gpm.

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Comments 4, 5 and 6 would be better addressed by the Activity because of the ready access to the requested information.

Should there be additional comments or question, please contact me at (804) 431-2966.

Very Truly Yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "Robert J. Shaffer", with a long horizontal line extending to the right.

Robert J. Shaffer, P.E.  
Project Engineer

cc: D. Coleman



State of North Carolina  
Department of Environment, Health, and Natural Resources  
Wilmington Regional Office

James G. Martin, Governor  
William W. Cobey, Jr., Secretary

Bob Jamieson  
Regional Manager

January 5, 1993

**DIVISION OF ENVIRONMENTAL MANAGEMENT**

Commander, Atlantic Division  
Naval Facilities Engineering Command  
Code 1821, Mr. Trueman Seamans  
1510 Gilbert Street  
Norfolk, Va. 23511-2699

Subject: Additional Information Request - Groundwater Remediation  
Permit Application No. WQ0007160 (MCB Camp Lejeune)  
Permit Application No. WQ0007161 (MCAS New River)  
Onslow County

Dear Mr. Seamans:

The Wilmington Regional Office is in the process of evaluating the applications and supporting materials for the Tarawa Terrace Groundwater Remediation System, MCB Camp Lejeune, and the JP-5 Line Area Groundwater Remediation System, MCAS New River. Our task is to review plans, specifications, and perform site inspections as required to gain sufficient knowledge of the proposed facilities and the operation. A report is then generated and sent to the Permits and Engineering Group to aid in the preparation of the permit(s). The following information, listed below, is necessary to complete this evaluation. Please submit your written response to my attention no later than February 16, 1993. I will inform the project engineer of the Permits and Engineering Group of this request. I can resume my activities with your verbal response to these questions, if time is of the essence.

1) Both treatment plants have a device located on the influent side of the carbon filters which appears to be a geotextile fabric sediment filter. The Regional Office encourages the usage of sediment filters to control plugging of carbon filters due to iron bacteria sloughings and initial construction debris. Please provide factory specifications for these devices which includes the rated flow capacities. Design changes will not be necessary.

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2) Section 02901, Paragraph 3.5 of the specification document defines weekly water quality testing for volatile petroleum hydrocarbons and solvents per 40 CFR 136. This testing will be performed at the air stripper effluent. Are there plans to monitor the effluent quality from the carbon filters? How will it be determined when each carbon canister requires replacement?

3) The requested flow rate for permitting the Tarawa Terrace System is 28,800 GPD. The system design defines two recovery wells, RW-3 and RW-4. The pumping rates are to be capable of flow adjustment from 0.0 GPM to 5.0 GPM for each drawdown ejector. Are there other wells which are existing that will add the remainder of design flow to the system? If so, please provide technical information which is required for system identification purposes within the permit.

4) The discharge from both groundwater treatment facilities flow to separate sanitary sewer networks. The Tarawa Terrace facility is provided with a 2 inch effluent line which connects directly to a 6 inch gravity line. The JP-5 Line Area facility is provided with a 3 inch effluent line to an existing lift station. Can these existing sanitary sewer networks handle the localized flow introduction during peak flow periods?

5) Residual solids will accumulate within the oil/water separator and bag filter. How will these residuals be disposed?

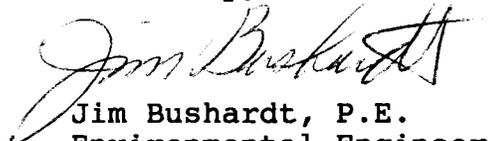
6) The coordinates which were submitted for the treatment and disposal facilities have been annotated on an enclosure for your review. These coordinates should locate the groundwater treatment facilities. The locations appear to be questionable. Please provide a U.S.G.S. Quad sheet (Jacksonville South, N.C.) or equal with the facilities locations defined.

The facilities have been substantially completed without the approval of the Division of Environmental Management. The unapproved construction activity places the applicant at risk, in the event of design deficiencies or improper location in regard to buffer zone requirements. If there are questions pertaining to the Division's requirements, this office can provide answers and/or copies of the Division's Administrative Code. As a cursory comment, the facilities meet the design intent and do not violate buffer requirements.

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You may contact me at (919) 395-3900, if you have questions about the requested information or to provide a verbal response.

Sincerely,

  
Jim Bushardt, P.E.  
Environmental Engineer

JB:LEJEUNE.JAN

ENCLOSURE

cc: Susan Clark (Atlantic Division)  
Bob Warren (MCB Camp Lejeune)  
Randy Jones (P&E)  
Wilmington Files  
Central Files

