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MCB CAMP LEJUENE
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ADDITIONAL INFORMATION REQUEST FOR GROUNDWATER REMEDIATION PERMIT
APPLICATION MCB CAMP LEJEUNE NC
1/5/1993
NORTH CAROLINA DEPARTMENT OF ENVIRONMENT HEALTH AND NATURAL
RESOURCES



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?

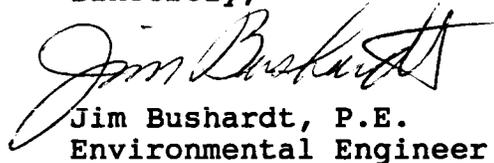
6) The coordinates which were submitted for the treatment and disposal facilities have been annotated on an enclosure for your review. These coordinates should locate the groundwater treatment facilities. The locations appear to be questionable. Please provide a U.S.G.S. Quad sheet (Jacksonville South,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

