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OPTIONAL FORM 99 (7 90)

FAX TRANSMITTAL

To: Mac Frazelle From: Bryan Ashko

Dept./Agency Phone #
Fax #
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North Carolina Health and Natural Resources
Waste Management
Raleigh, North Carolina 27604

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

George T. Everett, Ph.D.
Director

June 14, 1991

B.W. Elston
Deputy AC/S Facilities
AC/S Facilities Building #1
Marine Corps Base
Camp Lejeune, North Carolina 28542

Subject: Permit No. WQ0003976
Camp Lejeune Marine Corps Base
Water Treatment Plant
Lime-Alum Residual Disposal
Onslow County

Dear Mr. Elston:

In accordance with your application received August 9, 1990, we are forwarding herewith Permit No. WQ0003976, dated June 14, 1991, to the U.S. Marine Corps, Marine Corps Base Camp Lejeune for the subject lime-alum residual disposal program.

This permit shall be effective from the date of issuance until May 31, 1996, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Box 11666, Raleigh, NC 27604. Unless such demands are made this permit shall be final and binding.

If you need additional information concerning this matter, please contact Mr. Dana Bolden at 919/733-5083.

Sincerely,

Donald J. Everett
George T. Everett

cc: Onslow County Health Department
Wilmington Regional Office
Hobbs, Upchurch & Associates, P.A.
Groundwater Section
Ken Webb, Four Seasons Industrial Services, Inc.
Facilities Assessment Unit

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Pollution Prevention Pays
P.O. Box 29535, Raleigh, North Carolina 27626-0535 Telephone 919-733-7015

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

RALEIGH

PERMIT

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In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

U.S. Marine Corps, Marine Corps Base Camp Lejeune
Onslow County

FOR THE

operation of a lime-alum residual disposal program consisting of lagoon treated lime-alum residual being loaded, hauled and spread by a commercial disposal contractor on soils according to proper agronomic principles within regulatory guidelines to serve the Marine Corps Base Camp Lejeune Water Treatment Plant with no discharge of wastes to the surface waters, pursuant to the application received August 9, 1990 and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until May 31, 1996, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. This permit shall become voidable in the event of failure of the disposal program to adequately protect the assigned water quality standards of the surface waters and groundwaters.
2. The sludge program facilities shall be effectively maintained and operated as a non-discharge system to prevent discharge of any wastes resulting from the operation of this program.
3. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility or distribution of the subject lime-alum material.
4. In the event that the distribution program is not operated satisfactorily, including the creation of nuisance conditions, the Permittee shall take such immediate corrective action as may be required by this Department, including the construction of additional or replacement wastewater treatment or disposal facilities.
5. Diversion or bypassing of the residual or drainage wastewater from the facilities is prohibited.
6. Lime-alum residual should not be used in areas of intense public use (schools).

...for the land application of lime-alum residuals from the Marine Corps Base Camp Lejeune water treatment plant only.

8. No sludge shall be stockpiled in any location at any time.

II. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities and disposal sites shall be properly maintained and operated at all times.
- * 2. The distribution operation must be conducted under the supervision of the certified wastewater treatment plant operator required by the Certification Commission for operation of the Water Treatment Plant Lime-Alum Residual Distribution Program.
- * 3. The subject lime-alum residuals shall only be applied at agronomic rates. Initial application rate shall be no greater than one ton per acre and may be increased to a maximum of four tons per acre with the written consent of the Wilmington Regional Water Quality Supervisor.
4. The following buffers zones shall be maintained:
 - a) 100 feet from "SA, SB and WS" classified waters and public surface water supplies.
 - b) 100 feet from streams, creeks, lakes, rivers, and surface water drainage ways.
 - c) 50 feet from public right of ways.
 - d) 100 feet from property lines.
 - e) 25 feet from downslope interceptor drains, surface water diversions, groundwater drainage systems and surface drainage ditches.
5. Land applied lime-alum residual shall be incorporated within 24 hours of land application.
6. The lime-alum residual shall not be mixed with any other materials for land application.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring (including groundwater, surface water, residual, soil, or plant tissue analyses) deemed necessary by the Division of Environmental Management to insure protection of the environment will be established and an acceptable sampling and reporting schedule shall be followed.
- * 2. A analysis the lime-alum residual shall be made every six (6) months and TCLP analysis every twelve (12) months with the results recorded prior to any sludge being removed from the water treatment facilities or sludge storage lagoons. The sludge analysis shall include but is not necessarily limited to the following parameters:

% total solids	Magnesium
Chlorides	Sulfate
Phosphorus	Potassium
Lead	Zinc
Copper	Nickel
Cadmium	Chromium
Sodium	Calcium
Total Nitrogen	Ammonia Nitrogen
Nitrate/Nitrite Nitrogen	pH
Plant Available Nitrogen (by calculation)	

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| Arsenic | Barium |
| Benzene | Cadmium |
| Carbon tetrachloride | Chlordane |
| Chlorobenzene | Chloroform |
| Chromium | o-Cresol |
| m-Cresol | p-Cresol |
| Cresol | 2,4-D |
| 1,4-Dichlorobenzene | 1,2-Dichloroethane |
| 1,1-Dichloroethylene | 2,4-Dinitrotoluene |
| Endrin | Heptachlor (and its hydroxide) |
| Hexachlorobenzene | Hexachloro-1,3-butadiene |
| Hexachloroethane | Lead |
| Lindane | Mercury |
| Methoxychlor | Methyl ethyl ketone |
| Nitrobenzene | Pentachlorophenol |
| Pyridine | Selenium |
| Silver | Tetrachloroethylene |
| Toxaphene | Trichloroethylene |
| 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol |
| 2,4,5-TP (Silvex) | Vinyl chloride |

3. The Permittee shall maintain records including, but not limited to the following:

- * a. volume and analysis of residual
- * b. date, location and amount of lime-alum residual distributed
- * c. name of lime-alum residual recipient, volume received, and intended use

These records shall be available at the water treatment facility for inspection and review by the Division.

* 4. The lime-alum residual shall only be applied at agronomic rates as judged by a soil scientist or local extension agent and only within the confines of Marine Corps Base Camp Lejeune. A map indicating the disposal site shall be mailed to the appropriate Regional Office Supervisor prior to any disposal activities.

* 5. An Annual Summary Report shall be submitted to the Regional Supervisor of the Division's Washington Regional Office on or before March 1 of each year, which summarizes the information required for recording including the residual analysis and TCLP reports.

* 6. Noncompliance Notification:

* The Permittee shall report by telephone to the Wilmington Regional Office, telephone no. (919)256-4161, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

- * a. Any occurrence with the disposal program which results in the disposal of significant amounts of wastes which are abnormal in quantity or characteristic.
- * b. Any failure of the composting program resulting in a discharge of wastes to receiving waters.
- * c. Any time that self-monitoring information indicates that the facility has gone out of compliance with the conditions and limitations of this permit or the parameters on which the system was designed.



- c. Any leakage or spillage that occurs during the transfer or transport of the lime-alum material.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

IV. GROUNDWATER REQUIREMENTS

- 1. Any groundwater quality monitoring as deemed necessary by the Division of Environmental Management shall be provided.
- 2. No land application of lime-alum residual shall be undertaken where the water table is less than three (3) feet below the land surface.

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V. INSPECTIONS

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- 1. The Permittee or his designee shall inspect the lime-alum storage, transport, and disposal facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall keep an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available upon request by the Division of Environmental Management or other permitting authority.
- 2. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the composting facility and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the terms and conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

VI. GENERAL CONDITIONS

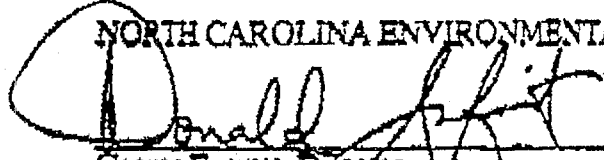
- 1. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division.
- 2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
- 3. This permit is not transferable. In the event there is a desire for the facilities to change ownership or a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

accordance with North Carolina General Statute 143-215.6.

5. The annual administering and compliance fee must be paid by the Permittee within thirty (30) days after being billed by the Division. Failure to pay the fee accordingly may cause the Division to initiate action to revoke this permit as specified by 15 N.C.A.C. 2H .0205 (c)(4).
6. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.
7. A set of approved documents for the subject project must be retained by the applicant for the life of the project.
8. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.
9. This permit may be modified or reissued to incorporate any conditions, limitations and monitoring requirements the Division of Environmental Management deems necessary in order to adequately protect the environment and public health.

Permit issued this the 14th day of June, 1991

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



 George Everett, Director
 Division of Environmental Management
 By Authority of the Environmental Management Commission

Permit No. WQ0003976

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