6280 ENVIRONMENTAL QUALITY AND
POLLUTION CONTROL

JAN 1 1989

DEC 31 1989

(PERMANENT) SECNAVINST 5212.5B
PART II, CHAP 6, PAR 6000(1)(c)

Danny DDS
Billy

File at LAB

6280
MAIN
03 NOV 1986

FIRST ENDORSEMENT on AC/S, Fac ltr 6280/5 FAC of 30 Oct 86

From: Base Maintenance Officer
To: Public Works Officer

Subj: REQUEST FOR ENGINEERING STUDY OF ONSLOW BEACH SEWAGE OUTFALL

1. Forwarded.

2. Funds will be provided by Base Maintenance Division as requested.

M. G. LILLEY

Copy to:
AC/S, Fac
NREAD
EnvEngr

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

6280/5
FAC

DATE: 30 OCT 1986

FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
TO: Public Works Officer
Via: Base Maintenance Officer

SUBJ: REQUEST FOR ENGINEERING STUDY OF ONSLOW BEACH SEWAGE OUTFALL

Ref: (a) CG, MCB ltr 6280/5 FAC of 17 Sep 86
(b) Fonecon between Mr. Howard, NCDEM, and Mr. Alexander, MCB EnvEngr of 21 Oct 86

Encl: (1) LantNavFacEngCom Spdltr 6280 1141WLC of 14 Oct 1986 w/encl

1. As described in reference (a) and the enclosure, request you take action to complete engineering study of this subject. Per reference (b), an extension of time until 1 January 1987 could be granted by the State to accomplish this study. A written request for the extension is being forwarded.

2. The scope of the study should include evaluation of four possible options:

? a. No action -- continue discharge to SA waters.

b. Relocate outfall to Atlantic Ocean.

c. Land disposal.

? d. Pump sewage for discharge to SA waters.

Option C, Land Disposal, should evaluate the choice between spray irrigation or infiltration methods. Option D should evaluate pumping to either Courthouse Bay or Hadnot Point sewage systems, as well as the comparison of pumping either raw or treated sewage.

3. We are requesting funding from HQMC in the amount of $20,000 for this effort. Request Base Maintenance Officer provide immediate funding which will be reimbursed upon receipt of funds from HQMC. For more information, contact Mr. Bob Alexander, Environmental Engineer, extension 3034/3035.

B W Elston
B. W. ELSTON
By direction

Copy to:
NREAD
EnvEngr

U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

OPNAV 5216/145 (Rev. 3-78)
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[ ] AIR [ ] CERTIFIED
[ ] SPECIAL DELIVERY

CLASSIFICATION

DATE: 14 Oct 1986

IN REPLY REFER TO (ADDRESS & PHONE NO.): 6280 1141WLC 445-2933

INSTRUCTIONS

1. Message type phraseology is permissible.

2. Both addresses must be appropriate for window envelope or bulk mailing, as intended. Include attention codes, when known. Use dots and brackets as guides for window envelope addresses.

3. Give priority to processing, routing, and action required. Avoid time-consuming controls.

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To:
Commanding General
Marine Corps Base
Camp Lejeune, NC 28542-5201

Fold

STANDARD REFERENCES AND ENCLOSURES, IF ANY; TEXT AND SIGNATURE BLOCK

Subj: ONSLOW BEACH SEWAGE DISCHARGE PERMIT

Ref: (a) Title 15 of the North Carolina Administrative Code, Section 2H.0404
(b) North Carolina Division of Environmental Management (NCDEM) ltr of 8 Aug 86
(c) CG MCB Camp Lejeune ltr 6280/5 FAC of 17 Sep 86
(d) PHONCON NCDEM (Mr. P. Howard)/LANTNAVFACENGCOM (Mr. W. Carter) of 7 Oct 86

Encl: (1) Project Schedule - Onslow Beach Wastewater Treatment Alternatives

1. Reference (a) prohibits the discharge of domestic sewage, regardless of treatment, into Class SA waters.

2. Reference (b) informed MCB Camp Lejeune that the subject permit would not be issued unless it can be demonstrated that no wastewater treatment alternative is available other than continued discharge to the Intercoastal Waterways (i.e., SA waters).

Fold

3. Reference (c) proposes to prepare a staff study to clarify various issues that could possibly waiver those regulatory requirements. LANTNAVFACENGCOM's guidance on a response to the State of North Carolina was also requested.

COPY TO
CMC (LFL)

From:
Commander
Atlantic Division
Naval Facilities Engineering Command
Norfolk, VA 23511-6287

← ADDRESS REPLY AS SHOWN AT LEFT, OR, REPLY HEREON AND RETURN

CLASSIFICATION

4. During reference (d), NCDEM stated that MCB Camp Lejeune needs to identify a plan of action and a proposed schedule. Once NCDEM receives this information, the permit will be re-issued to include the new specified terms, conditions and timeframes.

5. For appropriate action under your cognizance, the following items are recommended:

a. Submit an ESR to LANTNAVFACENGCOM to hire an A/E firm to investigate the various wastewater treatment alternatives (e.g., subsurface disposal, land application and piping the effluent either to the Atlantic Ocean or to Courthouse Bay, etc.) and to evaluate their environmental and economic effects.

b. Send funds on a 2276 to LANTNAVFACENGCOM, Code 09A2A, once cost for the proposed study has been negotiated (estimated at approximately $60K).

c. Forward a response to NCDEM indicating our approach to addressing the issue and the proposed project schedule. Enclosure (1) is forwarded as a guide.

6. Questions regarding this matter may be addressed to Mr. W. Carter, Code 114, AUTOVON 565-2933.

J. R. Bailey
J. R. BAILEY
By direction

PROJECT SCHEDULE
ONSLOW BEACH WASTEWATER TREATMENT ALTERNATIVES

HIRE A/E

FIRST MONTH:	Advertise (CBD)
SECOND MONTH:	Slate (Obtain NAVFAC approval if required)
THIRD MONTH:	Select (Obtain NAVFAC approval if required)
FOURTH MONTH:	Negotiate (A/E has 2+ weeks to submit fee proposal)
FIFTH MONTH:	Obtain fees from MCB Camp Lejeune
SIXTH MONTH:	Award
ELEVENTH MONTH:	Draft Report
TWELVETH MONTH:	Review of Draft Report
FOURTEENTH MONTH:	Final Report

NOTE: Assumes have scope/government costs estimate written, funds available and no major obstacles.

Dany DRS
Butz
Tom THB

Initial + send to Betsy Inline org! T

30 OCT 1986

6280/5
FAC

Assistant Chief of S rine Corps Base, Camp Lejeune
Public Works Officer
Via: Base Maintenance Officer

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2. The scope of the study should include evaluation of four possible options:

a. No action -- continue discharge to SA waters.

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c. Land disposal.

d. Pump sewage for discharge to SA waters.

Option C, Land Disposal, should evaluate the choice between spray irrigation or infiltration methods. Option D should evaluate pumping to either Courthouse Bay or Hadnot Point sewage systems, as well as the comparison of pumping either raw or treated sewage.

3. We are requesting funding from HQMC in the amount of $20,000 for this effort. Request Base Maintenance Officer provide immediate funding which will be reimbursed upon receipt of funds from HQMC. For more information, contact Mr. Bob Alexander, Environmental Engineer, extension 3034/3035.

B. W. ELSTON
By direction

Copy to:
NREAD
EnvEngr

Dany DRS
Bob
Tom

30 OCT 1986

6280/5
FAC

Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
Public Works Officer
Via: Base Maintenance Officer

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	IN REPLY REFER TO (ADDRESS & PHONE NO.)	
	6280 1141WLC 445-2933	

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To:
Commanding General
Marine Corps Base
Camp Lejeune, NC 28542-5201

Fold

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Subj: ONSLOW BEACH SEWAGE DISCHARGE PERMIT

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COPY TO
CMC (LFL)

From:
Commander
Atlantic Division
Naval Facilities Engineering Command
Norfolk, VA 23511-6287

← ADDRESS REPLY AS SHOWN AT LEFT, OR, REPLY HEREON AND RETURN

CLASSIFICATION

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J. R. Bailey
J. R. BAILEY
By direction

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ELEVENTH MONTH:	Draft Report
TWELVETH MONTH:	Review of Draft Report
FOURTEENTH MONTH:	Final Report

NOTE: Assumes have scope/government costs estimate written, funds available and no major obstacles.

Dang DTS
Betty —
Tom HLB

Initial
sent to
Betsy
I have orig.

6280/5
FAC
30 OCT 1986

Mr. George Everett
Chief, Water Quality Section
Department of Natural Resources and
Community Development
Division of Environmental Management
512 North Salisbury Street
Raleigh, North Carolina 27611

Re: Discharge to SA Waters
NPDES Permit No. NC0063053
Onslow Beach STP
Camp Lejeune

Dear Mr. Everett:

The purpose of this letter is to request a time extension to December 31, 1986 for submission of the plan of action to relocate the subject discharge. As you are aware, this facility is located within the amphibious training area, which is vital to Marine Corps training at Camp Lejeune. Thus, construction of sewage facilities such as land disposal, which may affect available land for training, must be thoroughly evaluated.

We are coordinating with Headquarters, Marine Corps and our engineering staff to complete the Scope of Work and initiate an engineering study of possible options. In the next few weeks, we will seek your review of the proposed scope of study.

If further information is needed, contact Mr. Bob Alexander, Marine Corps Base Environmental Engineer, at 451-3034.

T. J. DALZELL
Colonel, U. S. Marine Corps
Assistant Chief of Staff, Facilities
By direction of the Commanding General

Copy to:
CMC (Code LFL)
LANTNAVFACENGCOM (Code 114)

Blind Copy to:
SJA
BMO
PWO
NREAD
EnvEngr

Dang DTS
Betty
Tom HLB

6280/5
FAC
30 OCT 1986

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Department of Natural Resources and
Community Development
Division of Environmental Management
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T. J. DALZELL
Colonel, U. S. Marine Corps
Assistant Chief of Staff, Facilities
By direction of the Commanding General

Copy to:
CMC (Code LFL)
LANTNAVFACENGCOM (Code 114)

Blind Copy to:
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Dan DDS
Betty EB

File at LAB
NREA

MAIL CONTROL FORM
MCBCL 5216/3 (REV. 1-86)

CONTROL NO. (Assigned by Base Adjutant)
475

RETURN THIS FORM AND ATTACHED CORRESPONDENCE TO BASE CENTRAL FILES. NUMBERS INDICATE ORDER OF ROUTE.

FROM:
CMC

REPLY DUE:
ASAP (31 October 1986)

DATE OF CORRESPONDENCE:
22 Ocotber 1986

DATE RECEIVED:
28 Ocotber 1986

ORIGINATOR'S SYMBOL:
LFL/2-445

SUBJECT:
ONSLOW BEACH SEWAGE DISCHARGE PERMIT

	ACTION	INFO	DATE IN	DATE OUT	INITIAL	COMMENTS
COMMANDING GENERAL		4	2	OCT 1986		
CHIEF OF STAFF		3		28 OCT		
INSPECTOR						
AC/S MANPOWER						
AC/S TRAINING						
AC/S FACILITIES	5			31 Oct		11/3/86
AC/S COMPTROLLER						
AC/S MWR						
AC/S LOGISTICS						
AC/S BOSMAD						
RASC						
PMO						
SJA						
~~CHAPLAIN~~ Sergeant Major		2				
ADJUTANT		1			M	

NUMBERS INDICATE ORDER OF ROUTE

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380-0001

IN REPLY REFER TO
6280/4
LFL/2-445
22 OCT 1986

From: Commandant of the Marine Corps
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542-5001

Subj: ONSLOW BEACH SEWAGE DISCHARGE PERMIT

Ref: (a) CG MCB Camp Lejeune ltr 6280/5 FAC of 17 Sep 1986
(b) CG MCB Camp Lejeune ltr 11000 over NREAD 14 Apr 1986

1. We have reviewed reference (a) and are concerned the North Carolina regulations could significantly impact operations at Marine Corps Base Camp Lejeune. However, before any conclusions can be reached, a thorough analysis of alternatives must be performed. We recommend your staff work in conjunction with the Atlantic Division, Naval Facilities Engineering Command to develop a Scope of Work and cost estimate to study alternatives to the current practice of discharging effluent to the Atlantic Intracoastal Waterway. The study must examine the environmental acceptability of each alternative when weighed against the cost and timeliness of its implementation. Economics must consider whether or not the alternative is in the "public interest" (i.e., the increased environmental benefit must be commensurate with the cost of installation, operation, and maintenance).

2. We note the State of North Carolina has requested your preliminary proposal of possible alternatives by 31 October 1986. We suggest an interim reply be forwarded indicating a Scope of Work is being prepared to address the problem and giving milestones for its accomplishment.

3. Should the study require funding from this Headquarters, we request you submit the Scope of Work, cost estimate, and reprioritization of projects forwarded by reference (b) as soon as possible. Our point of contact is Mr. Paul Hubbell on A/V 227-1890.

NEIL J. BROSS
By direction

Copy to:
LANTNAVFACENGCOM 114

COPY TO: EnvEng
BMO
PWO
NREAD

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS
Marine Corps Base
Camp Lejeune, North Carolina 28542

25 Sept 86
Date

From: Director
To: Sharpe DDS

Subj: Bitz ← Retain DDS

attached for your info.

Jim

Bet 2 Issue

Are Camp Lejeune's Plants
Publicly Owned waste collection
Treatment and Disposal facilities

DDS

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

6280/5
FAC
17 SEP 1986

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commandant of the Marine Corps (LFL)
Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia 23511-6287 (Code 114)

Subj: ONSLOW BEACH SEWAGE DISCHARGE PERMIT

Encl: (1) North Carolina Division of Environmental Management ltr dtd 8 Aug 86 (received 26 Aug 86)

1. The purpose of this letter is to seek your guidance on a response to the state of North Carolina as requested by the enclosure. These revised North Carolina regulations appear to prohibit continued sewage discharge to the Atlantic Intracoastal Waterway.

2. There appears to be no justification for the relocation of this discharge based on a very tentative review of water quality data collected and maintained by Marine Corps Base. Further, the adverse impacts on taking of shellfish for market purposes has not been documented as a substantial problem. However, we are preparing a staff study to clarify these issues. We may need to request additional time from the State in order to get your input and formulate a response to North Carolina.

3. In order to waive these regulations, the Marine Corps must show that land disposal is "not in the public interest" due to loss of valuable training lands in the Amphibious Landing Area. Piping the effluent, either to the Atlantic Ocean or to Courthouse Bay, also appears cost-prohibitive.

4. Point of contact for Marine Corps Base, Camp Lejeune is Mr. Robert Alexander, Environmental Engineer, autovon 484-3034/35.

T. J. DALZELL
By direction

Blind Copy to:
SJA
BMO
PWO
NREAD
EnvEngr

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542-5001

5280/5
EAC

17 SEP 1986

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commandant of the Marine Corps (LFL)
Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia 23511-6287 (Code 114)

Subj: BRUCE ALLEN SERVICE DISCHARGE PERMIT

Ref: (1) North Carolina Division of Environmental Management ltr dtd 8 Aug 86 (received 26 Aug 86)

1. The purpose of this letter is to request guidance on a response to the state of North Carolina as requested by the reference. These Virginia-North Carolina regulations appear to prohibit continued service discharge to the Atlantic Intracoastal Waterway.

2. There appears to be no justification for the relocation of this discharge based on a very tentative review of water quality data collected and maintained by Marine Corps Base. Further, the adverse impacts on tourist of shellfish for dayer purposes has not been documented as a substantial problem. However, we are preparing a brief study to clarify these issues. We may need to request additional time from the State in order to gather data and formulate a response to North Carolina.

3. In order to make these determinations, the Marine Corps must know that land discharge is more in the public interest due to loss of valuable training lands in the amphibious landing areas during the attempt, either by the Atlantic Ocean or to Carrowbee Bay, also appears cost-prohibitive.

4. Point of contact for Marine Corps Base, Camp Lejeune is Mr. Robert Alexander, Environmental Engineer, phone (919)451-3535.

T. M. BALLARD
By direction

Copy to:
SJA
CMC
PWO
NRRAD
Enviro

A 5/26

State of North Carolina
Department of Natural Resources and Community Development
Division of Environmental Management
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor
S. Thomas Rhodes, Secretary

R. Paul Wilms
Director

August 8, 1986

Mr. Bob Alexander
Marine Corps Base Environmental Engineer
United States Marine Corps
Marine Corps Base
Camp Lejeune, NC 28542

SUBJECT: Discharge to SA Waters
NPDES Permit No. NC0063053
Onslow Beach STP
Onslow County

Dear Mr. Alexander:

As you are aware, the discharge from the wastewater treatment facility serving Camp Lejeune - Onslow Beach enters waters which are classified SA. The quality of this class of waters must be maintained at a level suitable for the taking of shellfish for market purposes. Title 15 of the North Carolina Administrative Code, Section 2H .0404 (a) states that no domestic sewage, regardless of treatment, shall be discharged into waters classified SA. Section 2H .0406 (a) states that existing publicly owned waste collection, treatment and disposal systems shall comply with the requirements of these Regulations unless such compliance is determined by the Environmental Management Commission to be "not in the public interest". Such a finding would result when the requirements of these Regulations could not be met even after "best available control technology economically achievable" has been provided.

This permit cannot be issued unless it can be demonstrated that there is no wastewater treatment alternative available other than the discharge to SA waters. Alternatives that must be considered at a minimum are subsurface disposal, land application, and discharge to waters which are classified other than SA. In order to allow for adequate time for the evaluation of your proposal as well as for the processing of any needed permits, please provide our Wilmington Regional Office with a preliminary proposal of your possible alternatives no later than October 31, 1986.

Enclosure (1)

Enclosed is a copy of our Coastal Regulation which was cited above. If you have any questions, please do not hesitate to contact Mr. Preston Howard, Water Quality Regional Supervisor, Wilmington Regional Office, at telephone number 919/256-4161.

Sincerely,

George T. Everett

George Everett, Chief
Water Quality Section

Enclosure: Coastal Regulation

cc: Mr. Arthur Mouberry
Wilmington Regional Office

STATE OF NORTH CAROLINA

DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

DIVISION OF ENVIRONMENTAL MANAGEMENT

ADMINISTRATIVE CODE SECTION:

15 NCAC 2H .0400 - COASTAL WASTE TREATMENT DISPOSAL

CURRENT THROUGH JULY, 1 1985

ENVIRONMENTAL MANAGEMENT COMMISSION
RALEIGH, NORTH CAROLINA

SECTION .0400 - COASTAL WASTE TREATMENT DISPOSAL

.0401 STATEMENT OF POLICY

It is hereby declared to be the policy of the Environmental Management Commission that all wastewater generated in the State of North Carolina shall be treated to such an extent as to insure the compliance with water quality standards promulgated by the commission. It is further the policy of the commission that regional and area-wide wastewater collection and treatment facilities shall be promoted to the fullest practicable extent. The commission recognizes, however, that development of area-wide and regional sewerage systems is not always in keeping with the demands for growth within the areas and that interim regulations are necessary to insure that water quality standards are not violated. In keeping with this policy, the commission adopts these Regulations of this Section.

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1); Eff. February 1, 1976.

.0402 APPLICABILITY

These Regulations shall apply to treatment and disposal of waste from all installations located within the coastal areas which are subject to the regulations of the Environmental Management Commission.

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1); Eff. February 1, 1976; Amended Eff. September 13, 1981.

.0403 DEFINITION OF COASTAL AREAS

The coastal areas for the purposes of these Regulations are defined to include:

(1) the Outer Banks;

(2) those land areas bordering the coastal waters, including all waters assigned a salt water "S" classification and all tributaries that have experienced excessive growths of microscopic or macroscopic vegetation or that, because of their relative size and lack of water exchange are found by the commission to be subject to such excessive growths; and

(3) land areas bordering all natural impoundments situated east of the line established by the North Carolina

Environmental Management Commission to designate coastal waters, said land being described as follows:
"Extends from a point on the North Carolina/South Carolina state line near Calabash, North Carolina, generally along the lines of the Atlantic Coast Line Railroad and Norfolk Southern Railway, northeasterly and northerly to River Mile 66.0 (Lock No. 1) on the Cape Fear River; thence northerly to River Mile 30.0 on Black River; thence easterly to River Mile 48 on the North East Cape Fear River; thence northerly and easterly to River Mile 22.5 in New River; thence easterly and northerly to River Mile 25.0 on White Oak River (Atlantic Coast Line Railroad Bridge); thence northerly and easterly to River Mile 38.9 on Neuse River (Norfolk Southern Railway Bridge); thence northerly to River Mile 44.6 on Pamlico River (Norfolk Southern Railway Bridge); thence northeasterly and northerly crossing Albemarle Sound along Norfolk Southern Railway Bridge; thence northerly and easterly to River Mile 13.5 on Perquimans River (Norfolk Southern Railway Bridge); thence easterly to River Mile 20.0 on Pasquotank River (Norfolk Southern Railway Bridge); and thence northerly to the North Carolina/Virginia state line near Moyock, North Carolina."

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1);
Eff. February 1, 1976;
Amended Eff. September 13, 1981.

.0404 FACILITY LOCATION AND DESIGN

(a) No domestic sewage regardless of the treatment proposed and no other wastes which could adversely affect the taking of shellfish for market purposes shall be discharged into water classified "SA" or to waters in such close proximity as to adversely affect such "SA" waters. Wastes discharged into waters tributary to waters classified "SA" shall be treated in such manner as to assure that no impairment of water quality in the "SA" segments shall occur. No permits shall be issued for discharges into waters classified "SA"" unless Shellfish Sanitation, Environmental Health Section, Department of Human Resources, provides written concurrence that the discharge would not adversely affect shellfish water quality or the propagation of shellfish.

(b) No wastes shall be discharged to waters classified "SB" unless these wastes are treated to the extent necessary to assure protection of assigned water quality standards.

(c) The director may prohibit or limit any discharge of waste into surface waters if, in the opinion of the director, the surface waters experience or the discharge would result in:

(1) growths of microscopic vegetation such that chlorophyll a values are greater than 40 ug/l; or

(2) growths of microscopic or macroscopic vegetation which substantially impair the intended best usage of the waters.

(d) The discharge of wastewaters to the Atlantic Ocean shall follow the guidelines and requirements set forth in the United States Environmental Protection Agency regulation Ocean Discharge Criteria, 40 C.F.R. 125.120 through 125.124, which is specifically adopted by reference as promulgated on October 3, 1980.

(e) In all cases where connection to an area-wide sewerage system is feasible, such connection thereto shall be required.

(f) Septic tank systems shall not be approved in high density areas. For purposes of this Regulation high density areas are defined as those areas producing more than 1,200 gallons of waste per acre per day or which contain more than three residential units per acre. For purposes of this Regulation a septic tank system is defined as a ground absorption sewage disposal system consisting of a holding or settling tank and a ground absorption field. Septic tank systems shall be designed and constructed in accordance with Environmental Management Commission regulations governing septic tank systems.

(g) Interim Treatment and Disposal Facilities. In those cases where an approved area-wide collection and treatment system is not available, and where discharge to the surface waters is prohibited in Paragraphs (a), (b), (c), (d), and where use of a septic tank system is prohibited by paragraph (f), interim treatment and disposal facilities may be approved subject to their meeting the following requirements.

(1) Wastes other than those disposed of by spray irrigation shall receive tertiary treatment followed by adequate bactericidal treatment. For purposes of this Regulation tertiary treatment shall constitute biological treatment followed by acceptable solids removal to the extent accomplished by filtration. Also, flow equilization will be required unless it can be adequately demonstrated that either the wastewater influent flow rate will be of a uniform nature or that the proposed treatment units are designed such that they can adequately treat this wastewater without experiencing hydraulic overload.

(2) Waste treatment facilities (except septic tank-surface sand filter systems) shall be located at least 10 feet

from adjacent property under separate ownership, developed or undeveloped and at least 10 feet from on-property residential units if these units are to be sold, e.g., condominiums, residential subdivision houses. Septic tank-surface sand filter systems shall be located at least 200 feet from on-property residential units if these units are to be sold and at least 200 feet from adjacent property under separate ownership.

(3) Waste treatment facilities shall be equipped with effective noise and odor control devices and are to be enclosed by a solid or semi-solid structure or other approved structure. An automatically activated standby power source shall be provided. All essential treatment and disposal units shall be provided in duplicate.

(4) Treated wastes may be disposed of in on-site disposal facilities, which shall be located at least 500 feet from any impounded public surface water supply or public shallow (less than 50 feet deep) ground water supply, and at least 100 feet from a private ground water supply except when a study of the soil would indicate a lesser separation acceptable.

(5) Waste disposal facilities shall be located at least 100 feet from any waters classified SA and at least 50 feet from any other waters. In the case of drainage ditches that are normally dry this distance may be reduced to 25 feet.

(6) Waste disposal facilities are to be designed on the basis of site conditions and soil percolation rates. In Parts (a), (b), and (c) of this Subparagraph are given the maximum loading rates for three different treatment systems. Higher loading rates or other methods of waste disposal may be approved by the director based upon data submitted by the applicant.

(A) Subsurface Disposal Trench. One and one-half gallons per day per square foot of trench bottom based on maximum trench width of three feet. Trenches shall be separated at least eight feet center to center.

(B) Low Pressure Distribution System. One gallon per day per square foot of effective absorption area encompassed by the distribution system. The calculation of the amount of effective absorption area required shall be based on a maximum distribution line separation of five feet center to center.

(C) Rotary Distributors. Ten gallons per day per square foot of surface area.

(7) Waste disposal areas are to contain at least 1,000 square feet of open "green area" for each residential unit served, or 2,500 square feet per thousand gallons per day of waste flow, whichever is less. The term "green area" contained herein is defined as an area suitable for waste disposal, either in its natural state or which has been modified by planting vegetative cover of grasses or low growing shrubbery. Green areas shall not include street or roadway right-of-ways or areas not available for waste disposal. Not more than 25 percent of the required area may be covered with non-traffic bearing paved surfaces such as walkways or patios. Subsurface disposal areas shall not be used as parking lots, driveways, or for other vehicular traffic uses.

(8) Wastes that are to be disposed of by spray irrigation shall receive a level of treatment which will not render either the irrigation system or the disposal area unworkable. Spray irrigation systems shall be located at least 200 feet from any adjoining property, buffered by trees to prevent excessive drift. Such areas shall be surrounded by fencing with warning signs to discourage human use or trespass, and designed according to good engineering practices with the application rate not to exceed one and three fourth inches per week-unless the director determines, based on data submitted by the applicant, that a higher application rate is justified.

History Note: Statutory Authority G.S. 143-211; 143-214.2(c); 143-215; 143-215.1(a); 143-215.1(b)(1); 143-215.3(a)(1);
Eff. February 1, 1976;
Amended Eff. April 1, 1983; September 13, 1981; May 11, 1980.

.0405 PRIVATELY OWNED INSTALLATIONS

(a) Privately owned waste collection treatment and disposal systems serving establishments existing on the effective date of these Regulations shall comply with the requirements enumerated in these Regulations unless impossible. If adherence to the guides is not possible, the highest level of control technology consistent with site limitations shall be employed. No expansion of the load tributary to existing non-public facilities will be

allowed until compliance with the guides established in these Regulations is obtained.

(b) Privately owned wastewater collection, treatment and disposal systems serving establishments not in existence on the effective date of these Regulations shall comply with the provisions of these Regulations.

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1); Eff. February 1, 1976; Amended Eff. September 13, 1981.

.0406 PUBLICLY OWNED SEWERAGE FACILITIES

(a) Existing publicly owned waste collection, treatment, and disposal facilities shall comply with the requirements of these Regulations unless such compliance is determined by the commission to be "not in the public interest." Such a finding would result when requirements of these Regulations could not be met even after "best available control technology economically achievable" has been provided.

(b) New publicly owned waste collection, treatment, and disposal facilities shall comply with the provisions of these Regulations, and any other applicable regulations of the commission.

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1); Eff. February 1, 1976; Amended Eff. September 13, 1981.

.0407 EXCEPTIONS FROM REQUIREMENTS

No exception from the requirements of these Regulations shall be made until such exception is approved by the commission.

History Note: Statutory Authority G.S. 143-215.3(a)(1); 143-211; 143-215.1(a); 143-215.1(b)(1); Eff. February 1, 1976.