



DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
1005 MICHAEL ROAD
CAMP LEJEUNE NC 28547-2521

TELEPHONE:

(910) 451-2581
FAX (910) 451-5899

IN REPLY REFER TO:

N62470-93-D-3032
Delivery Order 0094
JAX/A13/cmh
15 Nov 95

OHM Corporation
Attn: Jim Dunn
5335 Triangle Parkway, Suite 450
Norcross, GA 30092

Re: Contract N62470-93-D-3032, Delivery Order 0094, BioCell Construction
and Operation, Marine Corps Base, Camp Lejeune, North Carolina

Gentlemen:

Enclosed is the North Carolina State Permit required for construction and
operation of the BioCell at Camp Lejeune. You are required to understand and
comply with all the requirements contained within the permit.

If you have any questions, contact the undersigned at (910) 451-2581.

Sincerely,

A handwritten signature in cursive script that reads "Cheryl Hansen".

CHERYL M. HANSEN
LT, CEC, USN
Navy Technical Representative

Encl

Copy to:
John Cotton
LANTDIV (Lance Laughmiller, Code 1823)
LANTDIV (Jerry Haste, Code 0524)
EMD (Neal Paul)

State of North Carolina
Department of Environment,
Health, and Natural Resources
Wilmington Regional Office
Division of Environmental Management
Groundwater Section



James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

November 8, 1995

Commanding General Patrick G. Howard
ATTN: AC-SEMD
Marine Corps Base
PFC Box 2004
Camp Lejeune, NC 28542-0004

Subject: Permit No. SR0800061
United States Marine Corps
Soils Containment and Treatment
Camp Lejeune
Onslow County

Dear General Howard:

In accordance with your application received October 19, 1995, we are forwarding herewith Permit No. SR0800061, dated November 8, 1995, to the United States Marine Corps for the construction and operation of a facility to remediate contaminated soils by containment and treatment.

This permit shall be effective from the date of issuance until November 30, 2000, and shall be subject to the conditions and limitations as specified therein.

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. Drawer 27447, Raleigh, North Carolina 27611-7447. Unless such demands are made this permit shall be final and binding.

Sincerely,

Rick Shiver

Rick Shiver, P.G.
Regional Supervisor

RSS/CFS/BAR/gjg
cc: Brent Rowse (USMC)
Onslow County Health Dept.
RCO-GWS
WiRO-GWS, CF,
GWS\SOILCONT\SR0800061 - 11/01/95

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

WILMINGTON

SOILS CONTAINMENT AND TREATMENT PERMIT

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
PERMIT NO. SR0800061 IS HEREBY GRANTED TO

UNITED STATES MARINE CORPS

Onslow County

FOR THE

construction and operation of a system for soil remediation by containment and treatment of soils containing petroleum products. The soils containment and treatment area shall be approximately 34,830 feet square, 3 feet deep, lined in accordance with Section II of this permit and surrounded by a dike extending no less than 72 inches above land surface. Approximately 1000 cubic yards of the soils are to be treated at one time on the site by aeration and nutrient addition pursuant to the application received October 19, 1995, and in conformity with the project plan, specifications, and other supporting data filed and approved by the Department of Environment, Health and Natural Resources and considered part of this permit.

This permit shall be effective from the date of issuance until November 30, 2000, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. The Wilmington Regional Office, (910) 395-3900, shall be notified at least forty-eight (48) hours before initial placement of the contaminated soils onto the protective sand layer above the liner. To allow for a site inspection, soil placement shall be initiated, and the Regional Supervisor shall be notified, during the normal working hours of 8:00 a.m. until 5:00 p.m. Monday through Friday, excluding State holidays (unless another time has been arranged with the Regional Supervisor).
2. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by the Division of Environmental Management (hereinafter "Division"), such as the construction of additional or replacement treatment or disposal facilities.
3. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface waters or groundwaters resulting from the operation of this facility.

I.. **PERFORMANCE STANDARDS** (con't)

4. The following minimum buffers shall be maintained:
 - a) 100 feet between disposal area and any public or private water supply, including wells;
 - b) 100 feet between disposal area and "SA" and "SB" classified surface waters;
 - c) 50 feet between disposal area and any stream, lake, river or natural drainageway;
 - d) 50 feet between disposal area and property lines;
 - e) 10 feet between disposal area and surface water interceptor drains or diversions (upslope);
 - f) 25 feet between disposal area and surface water interceptor drains or diversions (downslope) and groundwater drainage systems;
 - g) 100 feet from any habitable residence or place of public assembly under separate ownership.
5. No soils containing petroleum products, other than as specified in the permit application, shall be placed on the containment and treatment site without permission from the Wilmington Regional Supervisor.
6. This permit may be rescinded upon a determination by the Division that the contaminated soils have been remediated to a level of Total Petroleum Hydrocarbons (TPH) of ten (10) parts per million (ppm) or less as gasoline, TPH of forty (40) ppm or less as diesel, Oil and Grease of two hundred fifty (250) ppm or less, unless another concentration level is established by the Division.
7. Upon completion of construction and prior to operation, a certification must be received from a professional engineer certifying that the permitted facility has been constructed in accordance with this permit, and the approved plans and specifications. Mail the Certification to the Groundwater Section, 127 Cardinal Drive Extension, Wilmington, NC 28405-3845.

II. **OPERATION AND MAINTENANCE REQUIREMENTS**

1. The facilities shall be properly maintained and operated at all times.

II. OPERATION AND MAINTENANCE REQUIREMENTS (con't)

2. The soils containing petroleum products shall be placed within the 34,830 square feet contained area which is underlain by a synthetic liner that is chemically compatible with the petroleum products being contained and treated, having a permeability that is no greater than 1×10^{-9} centimeters per second (cm/sec), and that is comprised of a single layer of no less than 30 mil in thickness. The liner shall be overlain by a two (2) foot sand drainage layer. The treatment cell shall contain a leachate collection system.
3. The containment system for the contaminated soils shall be able to withstand any physical, chemical, or biological processes used for containment and treatment without failure of the impermeable liner.
4. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.
5. The contaminated soils shall be spread to a thickness not to exceed 12".
6. Nutrients, in the form of nitrogen and phosphorus fertilizers, may be applied over the containment area and fully incorporated into the contaminated soil.
7. Any temporary storage outside the treatment areas will be for no longer than 45 days and must conform with procedures in the most current issue of "Groundwater Section Guidelines For The Investigation and Remediation of Soils and Groundwater".
8. The soil shall be treated as outlined in the permit application.
9. All foreign debris shall be removed from the contaminated soil prior to initiating the remediation of the soil. Foreign debris removed from the contaminated soil shall be removed from the site within 48 hours after initial soil application, unless specific approval is granted by the Wilmington Regional Office to only accommodate emergencies or extenuating circumstances. This foreign debris must be disposed of in a manner consistent with all statutes, rules, regulations, or ordinances which may be imposed by government agencies (local, state, federal) which have jurisdiction.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring deemed necessary by the Division, to insure surface water and groundwater protection, will be established and an acceptable sampling and reporting schedule shall be followed.
2. **Noncompliance Notification:**
The permittee shall report by telephone to the Wilmington Regional Office, (910) 395-3900, 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:

III. **MONITORING AND REPORTING REQUIREMENTS** (con't)

- a) the containment and treatment of significant amounts or types of wastes which are not in accordance with the terms and conditions of this permit;
- b) any failure of the containment and treatment system resulting in a discharge of wastes to groundwaters or surface waters of the State in contravention of assigned quality standards;
- c) any system failure, due to known or unknown reasons, that render the facility incapable of adequate containment or treatment of the permitted soils containing petroleum products;
- d) any spillage or discharge from a vehicle or piping system transporting contaminated soil to the application site;
- e) any time that self-monitoring information indicates that the facility is not in compliance with the conditions and limitations of this permit or the parameters on which the system was designed.

Persons reporting such occurrences by telephone shall also file a written report in letter form within fifteen (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.

3. Soils contaminated by a petroleum product from sources other than those listed under the Federal Underground Storage Tank Rules (40 CFR Part 280) shall not be accepted unless both of the following stipulations have been met:
 - a) The contaminated soils shall not be placed into the treatment facility until they have been tested in accordance with the Toxicity Characteristic Revision Rules as specified in the March 29, 1990 Federal Register (pages 11798-11877); and,
 - b) For any soil in which one or more constituents exceed the regulatory level specified in (a), a written clearance is required from this Department's Division of Solid Waste Management that the contaminated soil is not subject to regulation by programs administered under their authority.
4. For each lot of contaminated soil, the following information must be submitted to the Wilmington Regional Office:
 - a) exact location of source of contamination (building number, spill site location, etc.);
 - b) class and specific types of petroleum product;
 - c) estimated volume of contaminated soil from source;

III. MONITORING AND REPORTING REQUIREMENTS (con't)

- d) required analysis for TPH, or Oil and Grease. Additionally, a Toxicity Characteristic Leaching Procedure analysis shall be conducted for total organics and heavy metals for non-virgin contaminated soils;
 - e) the results of a Toxicity Characteristic Leaching Procedure Test (as specified in the March 29, 1990 Federal Register For Toxicity Characteristics Revision, pages 11798-11877) for all petroleum contaminated soils not subject to the Underground Storage Tank Regulations (40 CFR Part 280);
 - f) A general waste manifest signed by each party having control over the contaminated soils, from point of origin to disposal location; and
 - g) for virgin soils, verification that the contaminated soil contains virgin petroleum product.
5. Prior to completion of remediation, samples and analyses of the soils are required in accordance with Table 3 of the application (copy attached). Nutrient sampling must be performed in accordance with Table 2 of the application (copy attached).

Each sample shall be representative of the vertical column of contaminated soil, using a soil auger, Shelby tube, split-spoon sampler or other means deemed acceptable by the Division. Precautions must be taken to prevent penetration or tearing of the liner material during sample collection.

A copy of the laboratory results of the soil analysis shall be submitted to the Wilmington Regional Office, to the attention of the Regional Hydrogeological Supervisor, within thirty (30) days of sample collection or another time frame approved by the Wilmington Regional Supervisor.

6. Prior to close-out of the containment and treatment system, collection and analyses of soil samples from beneath the liner system may be required to verify that the integrity of the liner system has been maintained. Sampling of groundwater may also be required.

IV. GROUNDWATER REQUIREMENTS

- 1. Any groundwater quality monitoring as deemed necessary by the Division shall be provided.
- 2. The Compliance Boundary for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. An exceedance of Groundwater Quality Standards beyond the Compliance Boundary is subject to penalty provisions applicable under General Statute 143-215.6A(a)(1). The sale of property, the Permittee, which is within or contiguous to the remediation system site may alter the location of the Compliance Boundary.

IV. GROUNDWATER REQUIREMENTS (con't)

For facilities permitted on or after December 30, 1983, the Compliance Boundary is established at the lesser of 250 feet from the soil remediation area, or 50 feet within the property boundary.

If the title to any property which may affect the location of the Compliance Boundary is changed, the Permittee shall notify the Division Director within 14 days. The Director shall then establish a modified Compliance Boundary which will be done as a modification to the permit.

The Review Boundary for the disposal system is specified by regulation in 15A NCAC 2L, Groundwater Classifications and Standards. A Review Boundary is established around disposal systems midway between the Compliance Boundary and the perimeter of the waste disposal area. When the concentration of any substances equals or exceeds the maximum allowable concentration of that substance at the Review Boundary, as determined by monitoring, the permittee shall either (i) demonstrate, through predictive calculations or modelling, that natural site conditions, facility design and operational controls will prevent a violation of standards at the Compliance Boundary; or (ii) submit a plan for the alteration of existing site conditions, facility design or operational controls that will prevent a violation of standards at the Compliance Boundary, and implement that plan upon its approval by the Director.

V. INSPECTIONS

1. Adequate inspection and maintenance of the subject facility shall be provided by the Permittee to insure compliance with applicable state, federal or local laws and regulations.
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 disposal site 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.
3. The Permittee or designee shall inspect the contaminated soil area and any other on site storage areas to prevent any 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 five (5) years from the date of inspection and shall be made available upon request to the Division or other permitting authorities.

V. INSPECTIONS (con't)

4. Any corrective action measures taken in response to this facility not performing as specified in the application, must be approved by the Regional Supervisor before implementation.

VI. GENERAL CONDITIONS

1. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting information.
2. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is 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.
3. A set of approved documents for the subject project must be retained by the applicant for the life of the project.
4. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6A, -215.6B, and -215.6C.
5. 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, or federal) which have jurisdiction.
6. 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 of the time and under such conditions and limitations as it may deem appropriate.
7. This permit shall become voidable unless the contaminated soil is stored and treated in accordance with the conditions of this permit and the approved documents.
8. In any future transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site.
9. 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 15A NCAC 2H .0205(c)(4).

VI. **GENERAL CONDITIONS** (con't)

10. Any petroleum contaminated soil originating from areas quarantined by the NC Department of Agriculture (NCDA), as delineated on the attached maps 1 and 2, shall be certified by NCDA for treatment and disposal at this facility. This certification must be received prior to any transport of the petroleum contaminated soil to the facility. Requests for certification must be directed to the NCDA field representative responsible for the county in which the contaminated soil originates (see map 3).
11. For situations in which petroleum contaminated soil originating **within** either of the quarantined areas and disposed of **outside** that quarantined area (i.e. to an area under different type of quarantine or a non-quarantined area) will require NCDA certification prior to transport of the petroleum contaminated soil. The Permittee must provide the Wilmington Regional Office with the NCDA Certification prior to transport of the petroleum contaminated soil to the facility.

Permit issued this the 8th day of November 1995.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

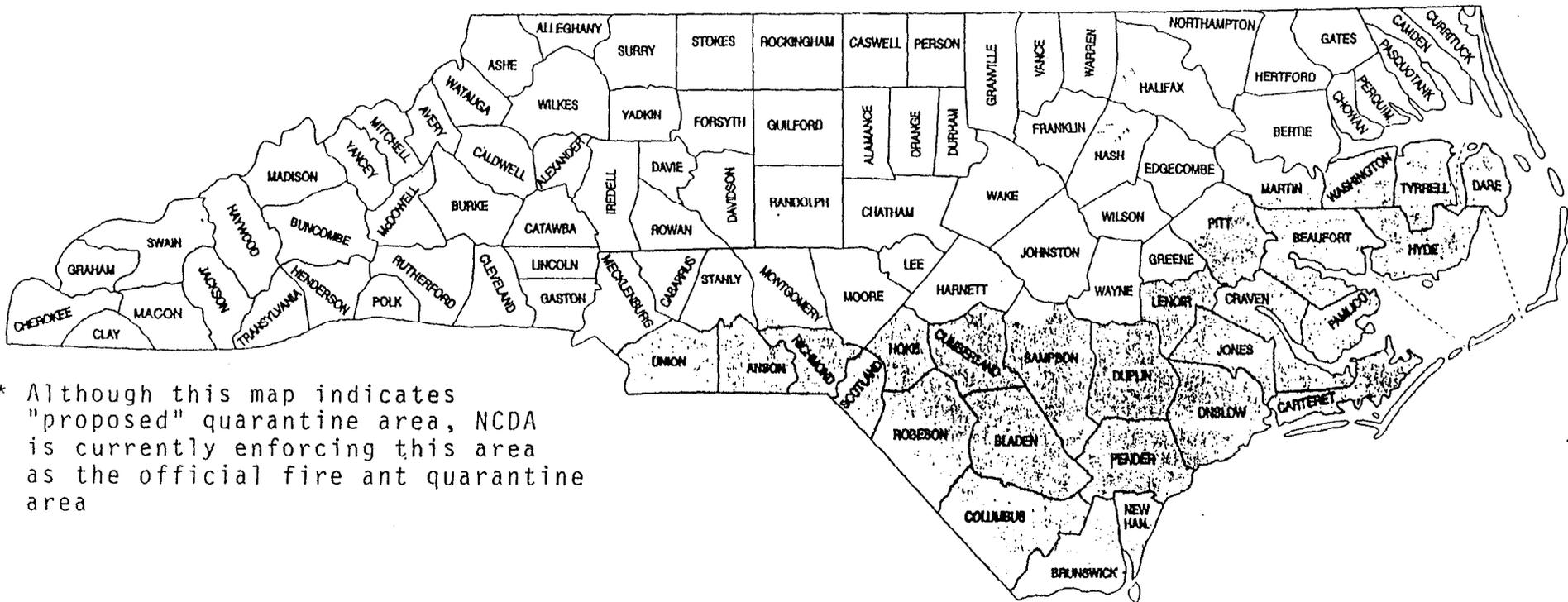
DICK SHIVER

Regional Supervisor, Wilmington Regional Office
Division of Environmental Management
By Authority of the Environmental Management Commission

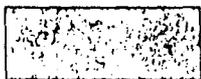
Permit No. SR0800061

* Proposed Imported Fire Ant Quarantine Area

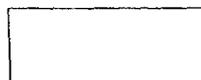
North Carolina - July 1992



* Although this map indicates "proposed" quarantine area, NCDA is currently enforcing this area as the official fire ant quarantine area

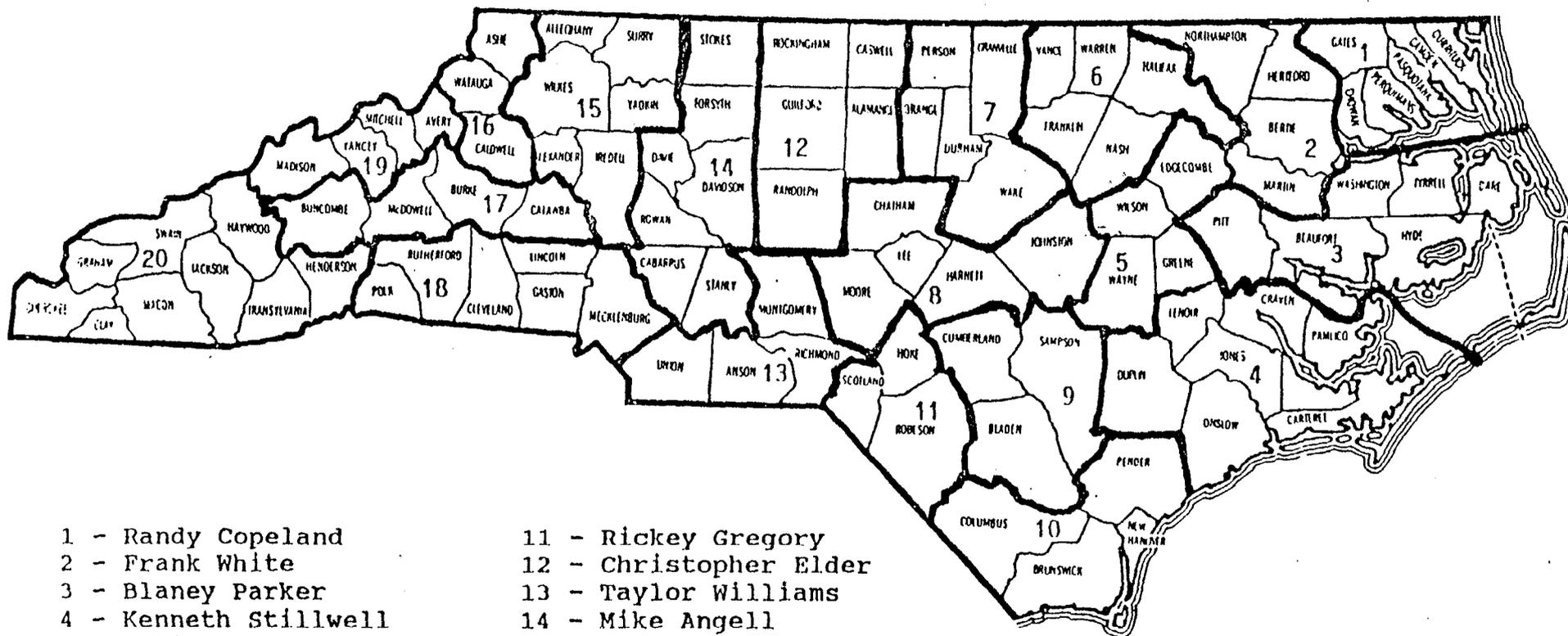


Regulated Area - Movement of regulated articles from this area into or through white area requires inspection.



Non Regulated Area - Movement of articles from or through these areas does not require inspection.

N. C. DEPARTMENT OF AGRICULTURE
 PLANT PROTECTION SECTION
 FIELD STAFF WORK AREAS



- | | |
|-----------------------|------------------------|
| 1 - Randy Copeland | 11 - Rickey Gregory |
| 2 - Frank White | 12 - Christopher Elder |
| 3 - Blaney Parker | 13 - Taylor Williams |
| 4 - Kenneth Stillwell | 14 - Mike Angell |
| 5 - Colin Batten | 15 - Robert Baldwin |
| 6 - Beth Hunsucker | 16 - Rob Hunt |
| 7 - Al Martin | 17 - Wayne Packard |
| 8 - Johnny Isenhour | 18 - Larry Revels |
| 9 - Terry Smith | 19 - Charlie Clark |
| 10 - Phil Wilson | 20 - Jim Corbin |

6.0 BIOCELL OPERATION AND MAINTENANCE

6.1 NUTRIENT ADDITION

Soil fertility will be managed through conventional fertilization techniques, using relatively soluble commercial fertilizers. The soil biotreatment facility is designed to accommodate both dry granular fertilizer or aqueous based nutrients. The primary nutrients to be used include diammonium phosphate and ammonium sulfate. The concrete pad located within the bermed biocell will be used to store reagents prior to use. The initial nutrient addition ratios will be consistent with North Carolina regulations for dedicated facilities based on organic carbon:nitrogen:phosphorus of ratios 60:1:075.

The application rate will be determined from baseline carbon:nitrogen:phosphorus present in the untreated soils. Total organic carbon concentration in the untreated soil will be used to establish the baseline nutrient addition rates. Nutrient use will be conserved since the leachate will be collected and the majority of it recycled and reapplied to the active biocell.

Nutrients will be applied in dry granular form using a conventional spread caster. The relatively small size of the treatment area favors the use of dry reagents which are manually applied by operation personnel.

Nutrient levels will be measured in the biocell prior to each separate 1,000 cubic yard batch treatment and monthly during operation and maintenance. Composite soil samples will be analyzed for the following parameters and anticipated frequency:

Table 2
Nutrient Monitoring Sampling and Analysis

Parameter	Method	Frequency
Total Organic Carbon	SW-846 Method 9060	Initial, Monthly
Ammonium-Nitrogen	ASA/SSSA Method 33-3, 33-4	Initial, Monthly
Phosphate-Phosphorous	ASA/SSSA Method 24-5.1, 24-5.3	Initial, Monthly
pH	ASA/SSSA Method 12-2.6	Initial, Monthly
Moisture Content	ASA/SSSA Method 21-22	Initial, Monthly
Bacterial Population Density	SM EWW 9215B	Initial, Monthly

The biocell will be divided into six equal quadrants for nutrient monitoring purposes. Grab samples will be collected by OHM personnel approximately 6 inches from the surface from the middle of each of the six quadrant locations and composited into three samples. The samples will be numbered sequentially and sent with a chain-of-custody for off-site analysis.

**Table 3
Sampling Summary**

Sample Type	Matrix	Sampling Frequency	Approx No of Samples	Sampling Method	Sampling Equipment	TAT ¹	QC Level	Sample Containers	Preservatives	Required Analysis	Analytical Method ²	Holding Time ³
Confirmation	Soil	Once every 1000 yd ³ batch	3 comp per biocell batch + 1 dup ⁴ (10%)	1 comp of 1 grab ea from 2 quadrants (total of 6 quadrants)	SS spoons, SS bowls	10 days	NFESC Level C	(1) 4 oz gl jar (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 8 oz gl jar (TPH/DRO & O&G)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
										Oil & Grease	9071	28 days
Confirmation Trip Blanks	Water	One per cooler	One per cooler	Prepared by lab	Not applicable	10 days	NFESC Level C	(1) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
Confirmation Field Blank	Water	One per source of decon water	1	Prepared by sampling team	Not applicable	10 days	NFESC Level C	(2) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 1L gl amber (TPH/DRO)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
								(1) 1L gl amber (O&G)	Cool, 4° C, H ₂ SO ₄ pH <2	Oil & Grease	9071	28 days
Confirmation Equipment Rinsate Blanks	Water	One per sampling event	1 per biocell batch sampling event	Prepared by sampling team	Not applicable	10 days	NFESC Level C	(2) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 1L gl amber (TPH/DRO)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
								(1) 1L gl amber (O&G)	Cool, 4° C, H ₂ SO ₄ pH <2	Oil & Grease	9071	28 days

- Notes:
- 1) Calendar days
 - 2) USEPA SW-846 methods unless otherwise specified
 - 3) Begins from the date of collection in the field
 - 4) Field duplicates shall be used by the laboratory for preparation of the matrix spikes and matrix spike duplicates

**Table 3
Sampling Summary**

Sample Type	Matrix	Sampling Frequency	Approx No of Samples	Sampling Method	Sampling Equipment	TAT ¹	QC Level	Sample Containers	Preservatives	Required Analysis	Analytical Method ²	Holding Time ³
Nutrient Monitoring	Soil	1-2 times initially, then once monthly	3 comp per sampling event + 1 dup ⁴ every 20 samples	1 comp of 1 grab ea from 2 quadrants (total of 6 quadrants)	SS spoons, SS bowls	48 hours	EPA Level 3	(2) 16 oz gl jar	Cool, 4° C	TOC Ammonium-Nitrogen Phosphate-Phosphorous pH Moisture content Bacterial population density	9060 ASA/SSSA 33-3,33-4 ASA/SSSA 24-5.1, 24-5.3 ASA/SSSA 12-2.6 ASA/SSSA 21-22 SM EWW 9215B	

**Table 3
Sampling Summary**

Sample Type	Matrix	Sampling Frequency	Approx No of Samples	Sampling Method	Sampling Equipment	TAT ¹	QC Level	Sample Containers	Preservatives	Required Analysis	Analytical Method ²	Holding Time ³
Initial characterization of incoming soils	Soil	Once every 1000 yd ³ batch	3 comp per biocell batch + 1 dup (5%)	1 comp of 1 grab ea from 2 quadrants (total of 6 quadrants)	SS spoons, SS bowls	48 hours	NFESC Level E	(1) 4 oz gl jar (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 8 oz gl jar (TPH/DRO & O&G)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
										Oil & Grease	9071	28 days
Initial characterization Trip Blanks	Water	One per cooler	One per cooler	Prepared by lab	Not applicable	48 hours	NFESC Level E	(1) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
Initial characterization Field Blank	Water	One per source of decon water	1	Prepared by sampling team	Not applicable	48 hours	NFESC Level E	(2) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 1L gl amber (TPH/DRO)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
								(1) 1L gl amber (O&G)	Cool, 4° C, H ₂ SO ₄ pH <2	Oil & Grease	9071	28 days
Initial characterization Equipment Rinsate Blanks	Water	One per sampling event	1 per biocell batch sampling event	Prepared by sampling team	Not applicable	48 hours	NFESC Level E	(2) 40 ml gl vial (TPH/GRO)	Cool, 4° C	TPH/GRO	5030/8015	14 days
								(1) 1L gl amber (TPH/DRO)	Cool, 4° C	TPH/DRO	3550/8015	Extract w/in 7 days, analyze 40 days
								(1) 1L gl amber (O&G)	Cool, 4° C, H ₂ SO ₄ pH <2	Oil & Grease	9071	28 days

Engineer's Certification

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, United States Marine Corp Base-Camp Lejeune, Camp Lejeune, Onslow County, for the Permittee hereby states that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the approved plans and specifications.

Signature _____ Registration No. _____

Date _____

Permit No. SR0800061

Date - October 8, 1995