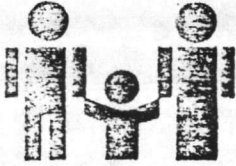


JAN 1 1985

JAN 1987 - DESTROY  
SECNAVINST 5215.5B, Part II, Chap 1  
Par 11010(1)(b)  
RETENTION - 2 YEARS



DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

Ronald H. Levine, M.D., M.P.H.  
STATE HEALTH DIRECTOR

July 20, 1982

Commanding General  
United States Marine Corps  
Marine Corps Base  
Camp Lejeune, NC 28542  
Attn: Asst. Chief of Staff-Facilities

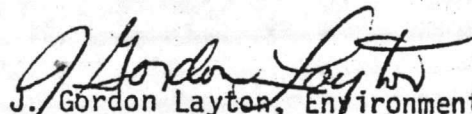
Re: Permit #67-03  
Camp Lejeune, Onslow County

Dear Sir:

The enclosed plan is approved in accordance with  
G.S. 130-166. Permit No. 67-03 is issued under  
conditions provided for on the permit.

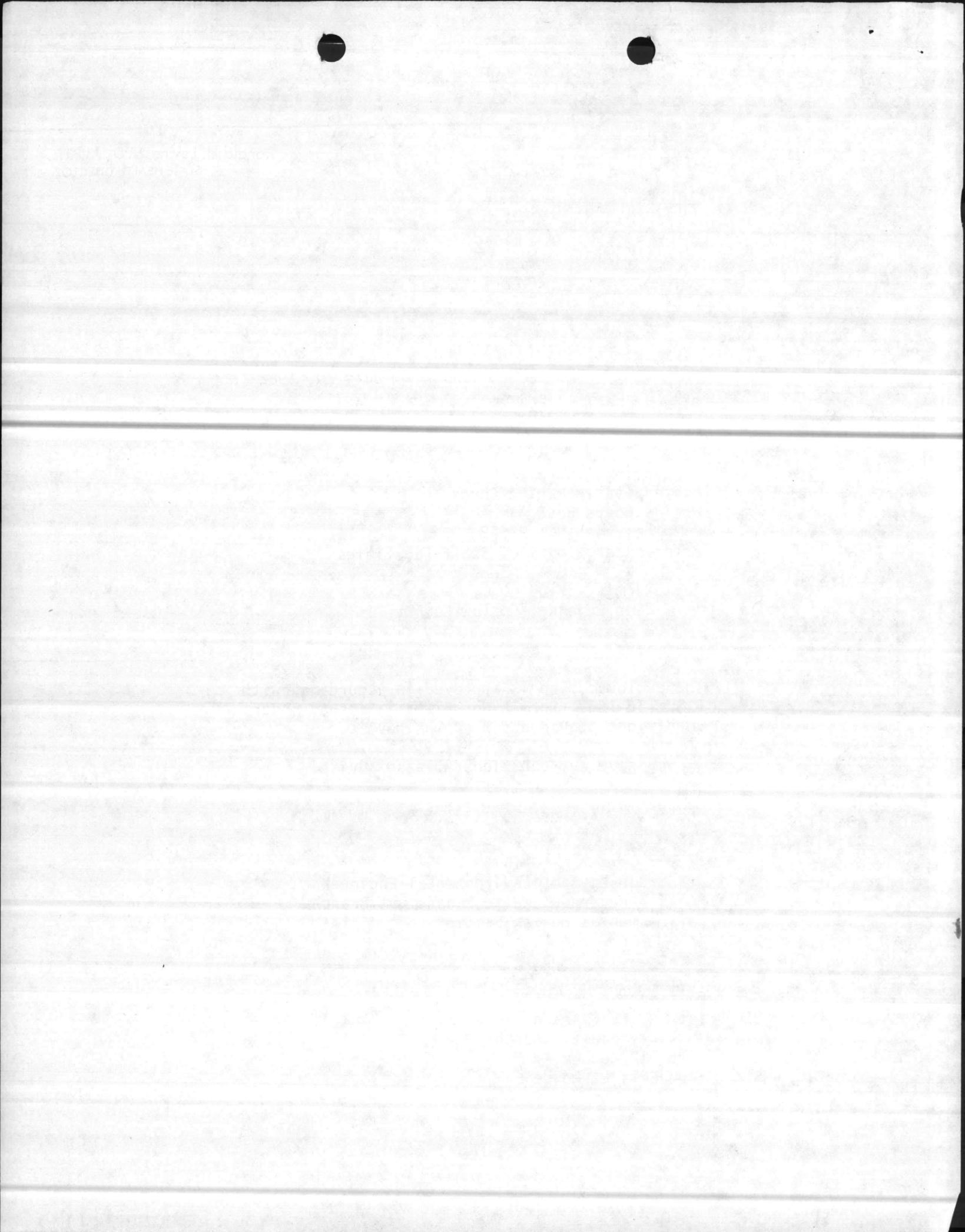
If you have any questions, please advise.

Respectfully,

  
J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

JGL:ns  
Enclosure  
cc: R. E. Carlson  
Raymond L. Church  
Pat McDowell  
Eris L. Rouse

ENCLOSURE (1)



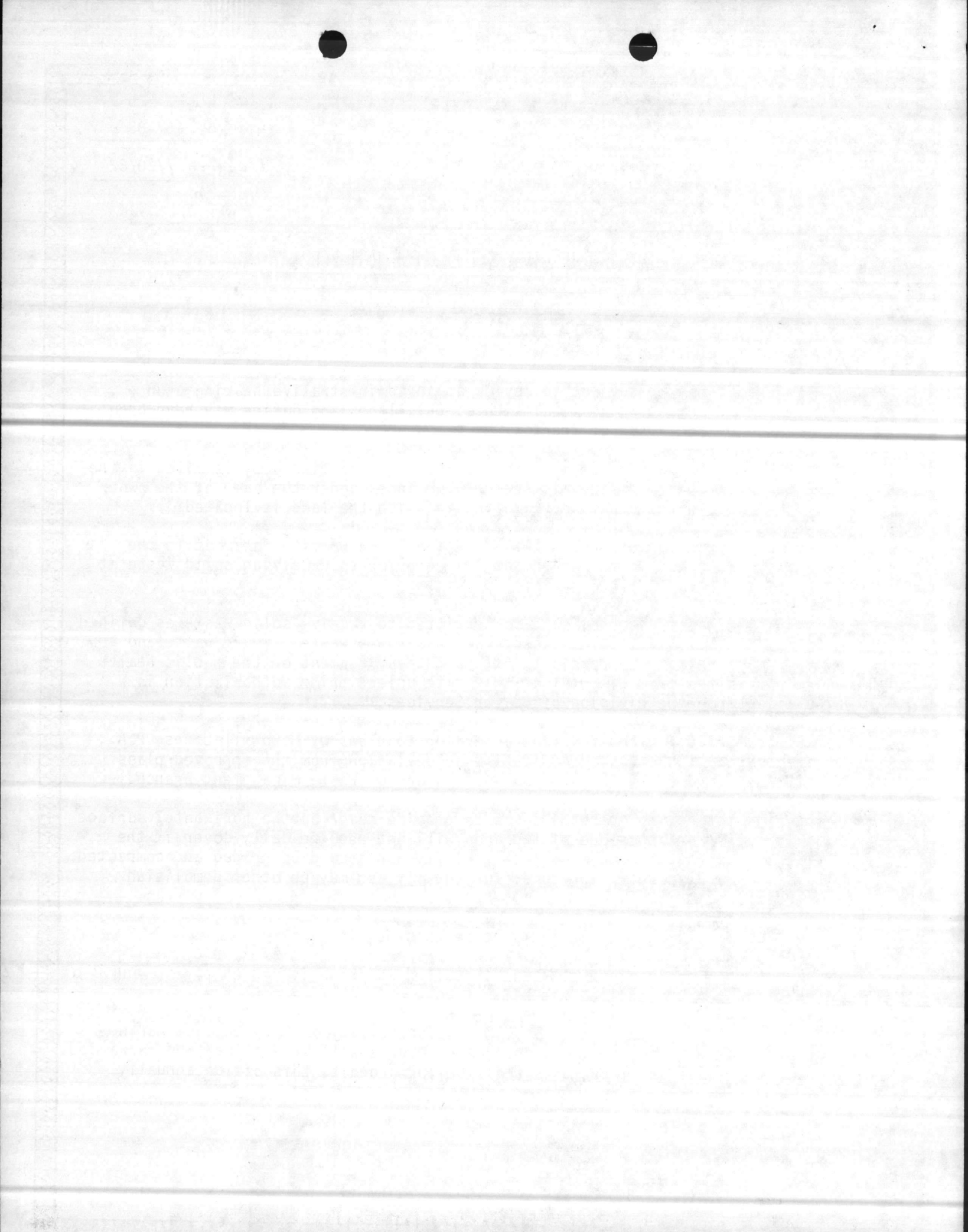
PERMIT NO. 67-03

DATE ISSUED 7/20/82

## SOLID WASTE PERMIT

### Conditions of Permit:

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.
2. This permit shall not be effective unless the certified copy is filed in the register of deeds' office, in the grantor index under the name of the owner of the land in the county or counties in which the land is located.
3. The "Certification of Recordation of Solid Waste Permit" returned to the Solid & Hazardous Waste Management Branch prior to receiving solid waste at the site.
4. This solid waste disposal site is permitted to receive solid waste as defined in 10 NCAC 10G, .0101(31), except that hazardous waste, liquid waste and any other wastes that may pose a threat to the environment or the public health are prohibited from disposal at this site unless prior authorization is obtained from the Division of Health Services.
5. This permit is for construction according to plans by McDowell-Jones, P.A., dated March, 1982. Any modification or deviation from the approved plans shall be approved by the N.C. Solid & Hazardous Waste Management Branch.
6. The fly ash area is operated so as to provide cover on the horizontal surface daily. The working slope of the area will not require daily cover if the fly ash does not become airborne. The fly ash should be graded and compacted daily, when disposed. Top cover for the fly ash may be other demolition material.
7. The grease holding pond is not part of this permit.
8. Ground-water monitoring wells are installed as shown in red on pages 1 and 2 of the plans per the enclosed specification.
9. Water quality monitoring will be the responsibility of Camp Lejeune Marine Corps Base. Parameters and sampling procedures will be outlined and forwarded. Results of water quality tests shall be forwarded to this office annually.



PERMIT NO. 67-03

DATE ISSUED 7/20/82

STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES  
*Division of Health Services*

P.O. Box 2091                      Raleigh 27602

SOLID WASTE PERMIT

CAMP LEJEUNE MARINE CORPS BASE is hereby issued a permit to

operate a SANITARY LANDFILL

located ON SNEADS FERRY ROAD (ONSLow COUNTY),

in accordance with Article 13B of the General Statutes of North Carolina and all

rules promulgated thereunder and subject to the conditions set forth in this

permit. The facility is located on the below described property.

BEGINNING at a point 332,151.5691/2,508,793.014:

thence N 28° 22' 46" W 3,100 feet;

thence N 61° 37' 14" E 1,950 feet;

thence S 28° 22' 46" E 3,100 feet;

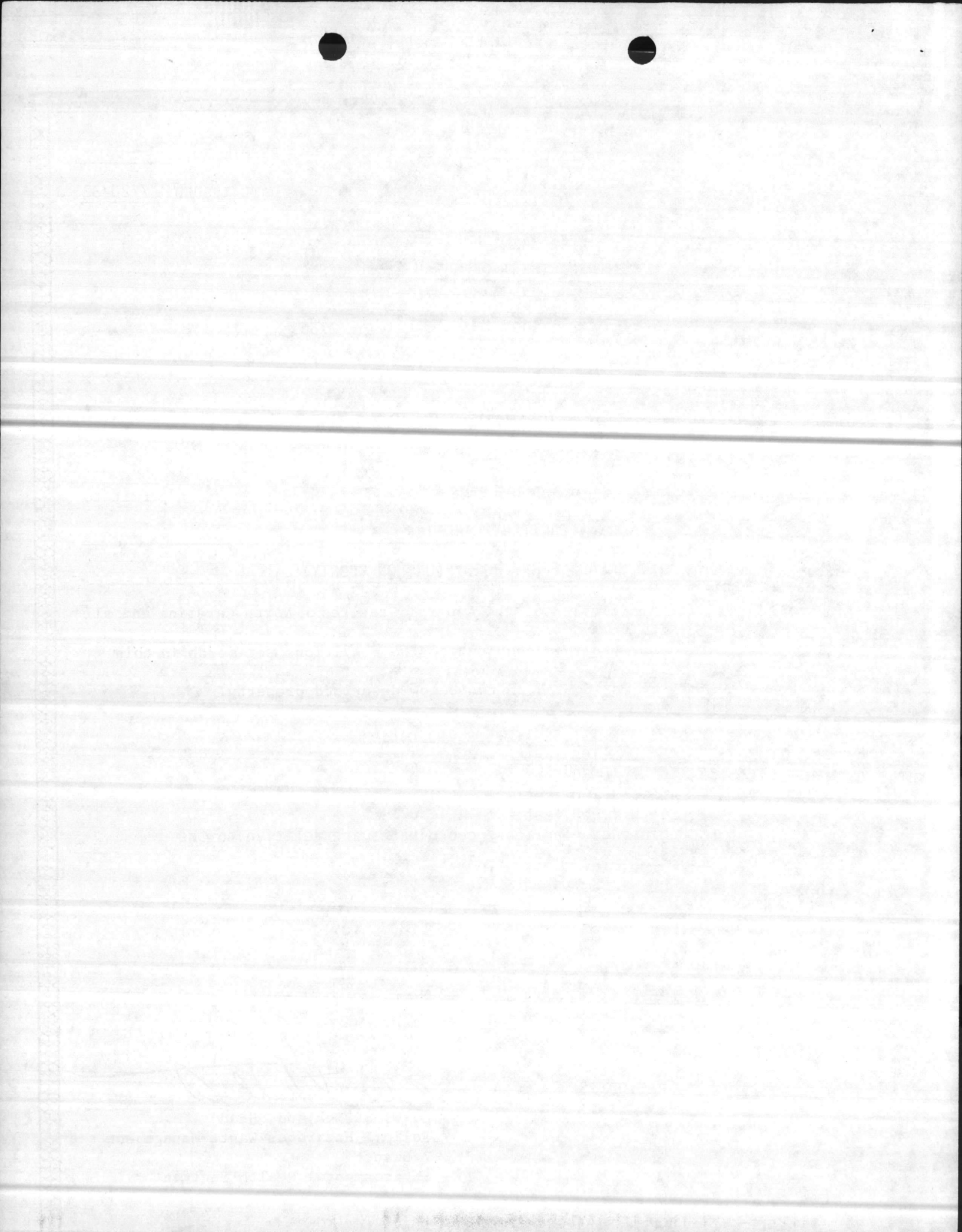
thence S 61° 37' 14" W 1,950 feet;

to the point of beginning. The above coordinates are relative to the  
N.C. Coordinate System.



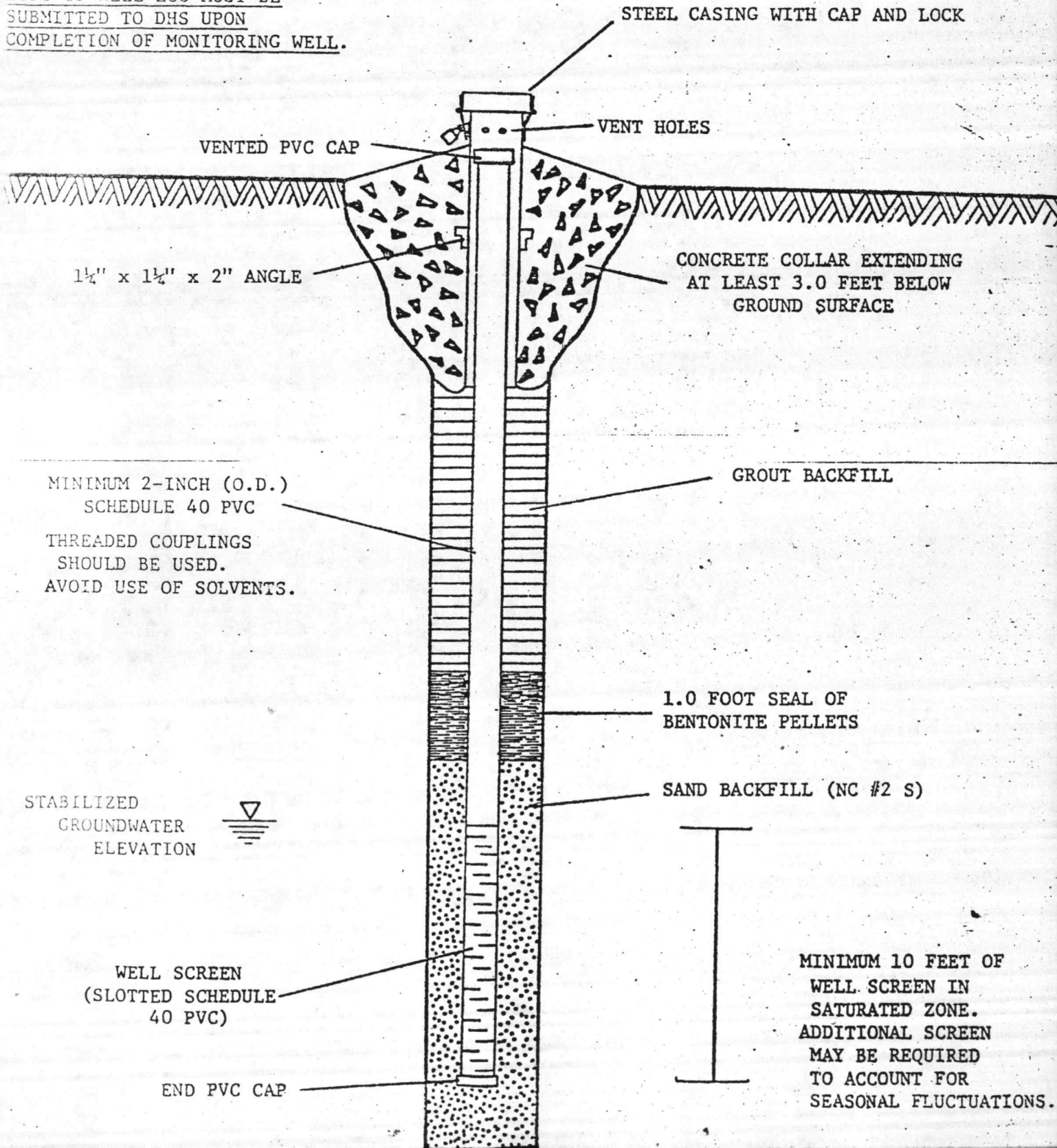
O. W. Strickland, Head  
Solid & Hazardous Waste Management  
Branch

Environmental Health Section

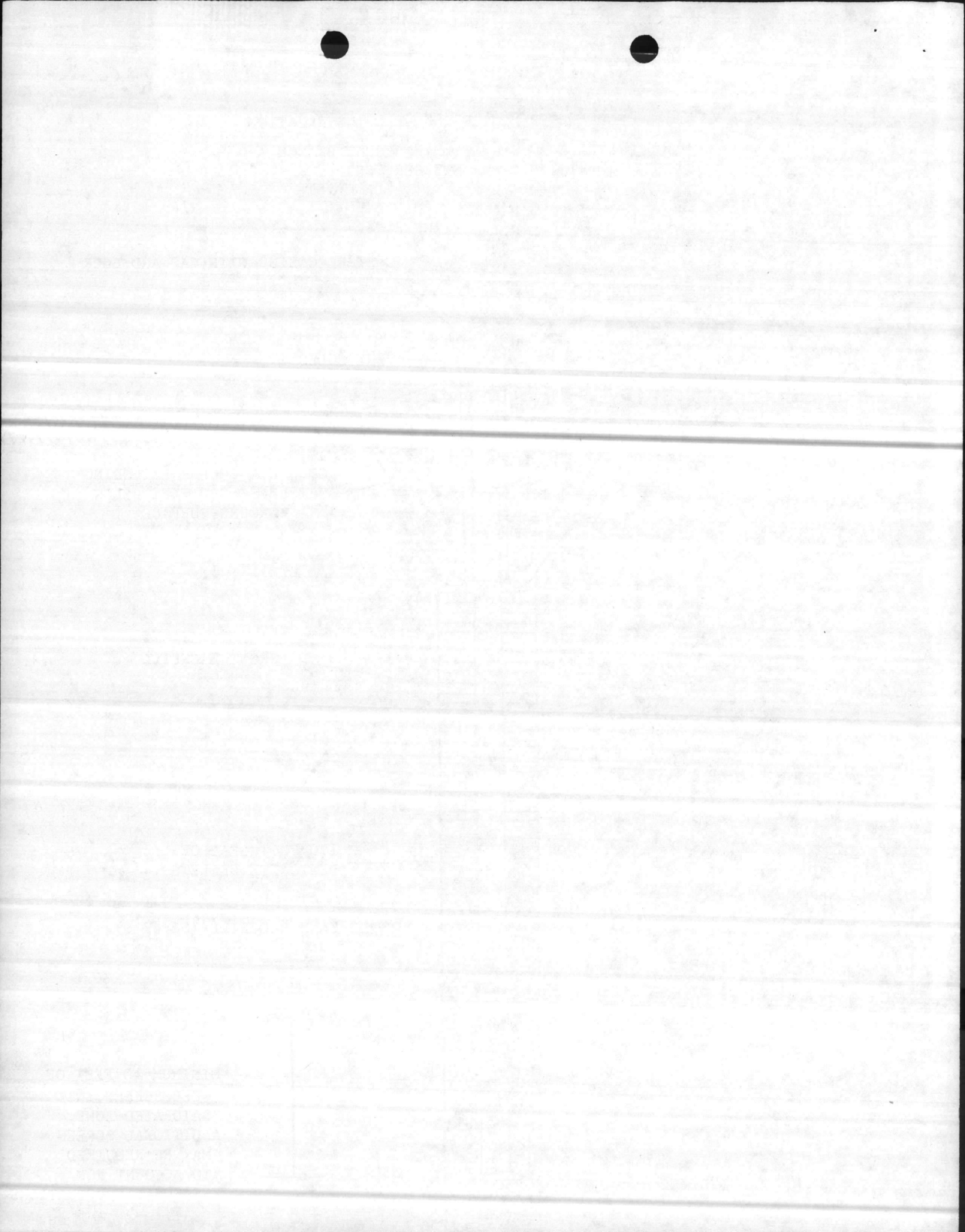


TYPICAL GROUNDWATER MONITORING WELL INSTALLATION  
SOLID & HAZARDOUS WASTE MANAGEMENT BRANCH  
DIVISION OF HEALTH SERVICES

COPY OF WELL LOG MUST BE  
SUBMITTED TO DHS UPON  
COMPLETION OF MONITORING WELL.







## PROCEDURES FOR INSTALLATION OF GROUND-WATER MONITORING WELLS

The location of monitoring wells at the proposed landfill site is the most critical phase of the site development. Placement of the monitoring wells will be based on ground-water gradients established during the preliminary site investigation. The selection of monitoring well locations must be coordinated with the geologist for the Solid and Hazardous Waste Management Branch. This is to assure uniformity of installation procedures and conformance with EPA regulations.

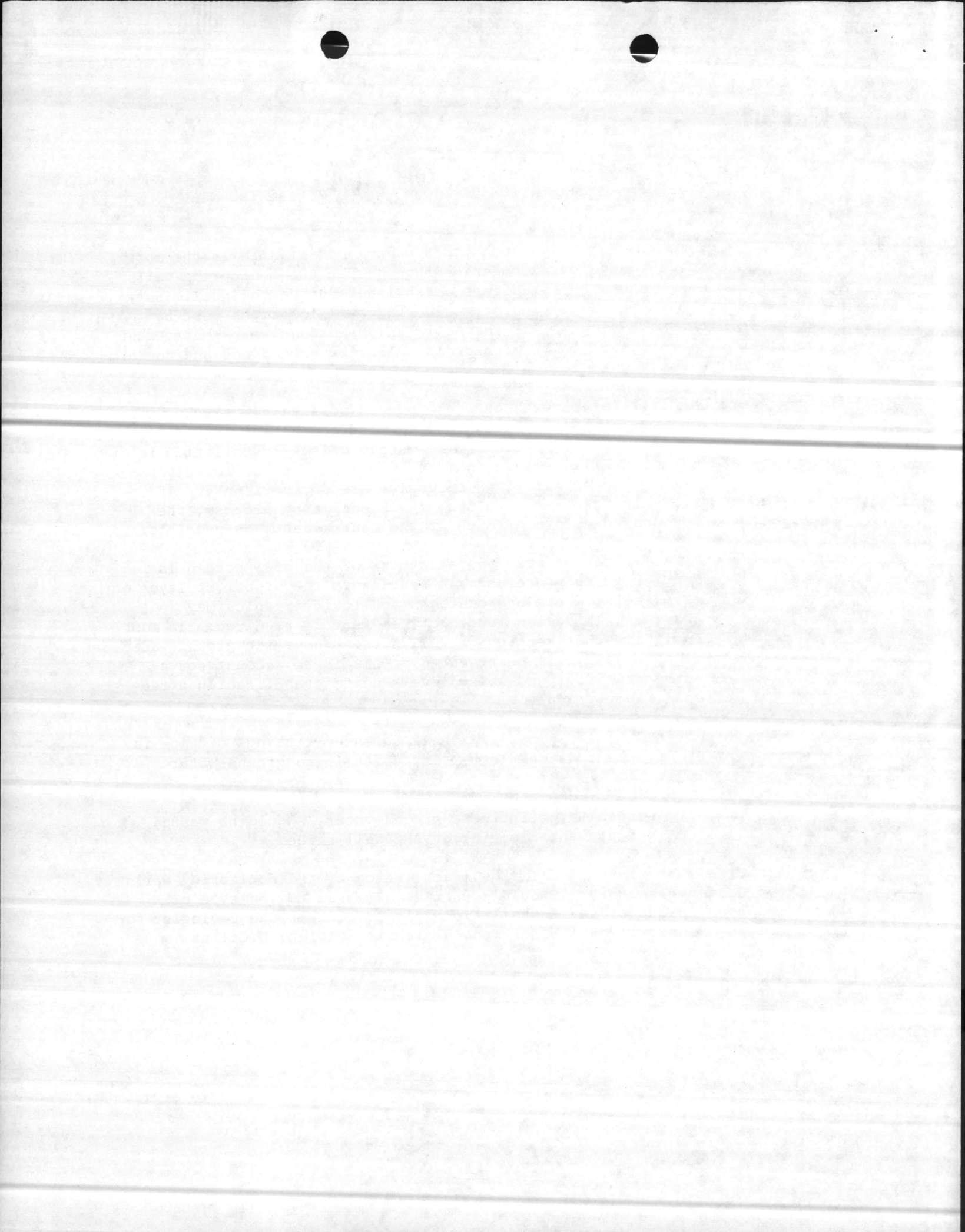
The procedure for drilling through the unsaturated soil mantle to the water bearing formation is a standard procedure with most consulting and well drilling firms. The only precaution in this stage of the installation is minimizing the use of drilling fluid (bentonite-gel mixture), flocculants (mixtures of sodium pyrophosphate) and excessive use of lubricants. If any of these or relating products are used in the drilling process, the hole should be flushed to remove as much of the contaminants as possible.

Installation of the monitoring well and placement of the well screen is critical to assure the ground-water sample represents the uppermost layer of the water-bearing material where hydrocarbons and toxic organics may accumulate. A minimum well screen length of ten feet is required. In most cases an additional five-foot section of well screen above the ground-water level at the time of boring will be required. This is to account for a possible rise in the static ground-water level due to stabilization after boring and seasonal fluctuations.

In connecting sections of PVC pipe, clamps or threaded fittings of pipe is preferred over epoxy cement as the latter may contaminate ground-water samples.

Sand, used as a pre-screening of influent ground-water, should be washed to remove all fines and prevent clogging of the well screen.

The remainder of materials used in the installation of the monitoring wells are fairly self-explanatory. Should questions arise as to the type of materials or any phase of the installation, please contact the geologist for the Solid and Hazardous Waste Management Branch in Raleigh, N.C., at (919) 733-2178.





DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

Ronald H. Levine, M.D., M.P.H.  
STATE HEALTH DIRECTOR

CERTIFICATION OF RECORDATION OF SOLID WASTE PERMIT

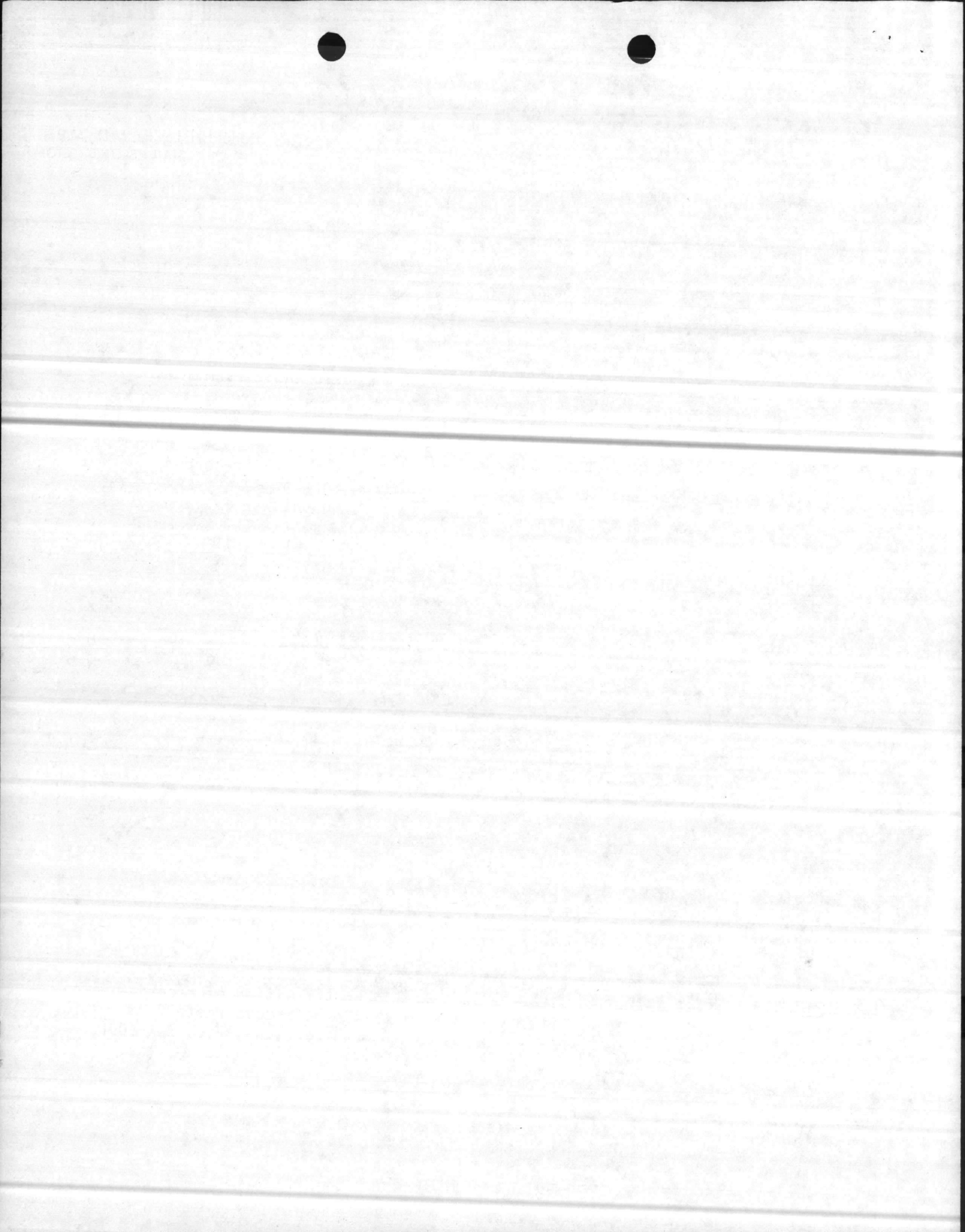
The Certified Copy of Permit # \_\_\_\_\_ was recorded  
on Page \_\_\_\_\_, Book \_\_\_\_\_; on this  
\_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

\_\_\_\_\_  
Register of Deeds

\_\_\_\_\_  
(seal)

To Landfill Owner/Operator:

In order for this permit to be valid it must be recorded as specified in the Permit. This certification of recordation must be received by the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, NC 27602, prior to receiving solid waste at the disposal site.





Ronald H. Levine, M.D., M.P.H.  
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

CERTIFIED COPY OF SOLID WASTE PERMIT

I do hereby certify that the attached PERMIT is an exact and true copy  
of Permit No. 67-03.

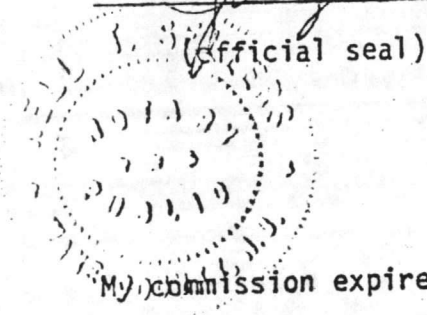
O. W. Strickland, Head  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

North Carolina

Wake County

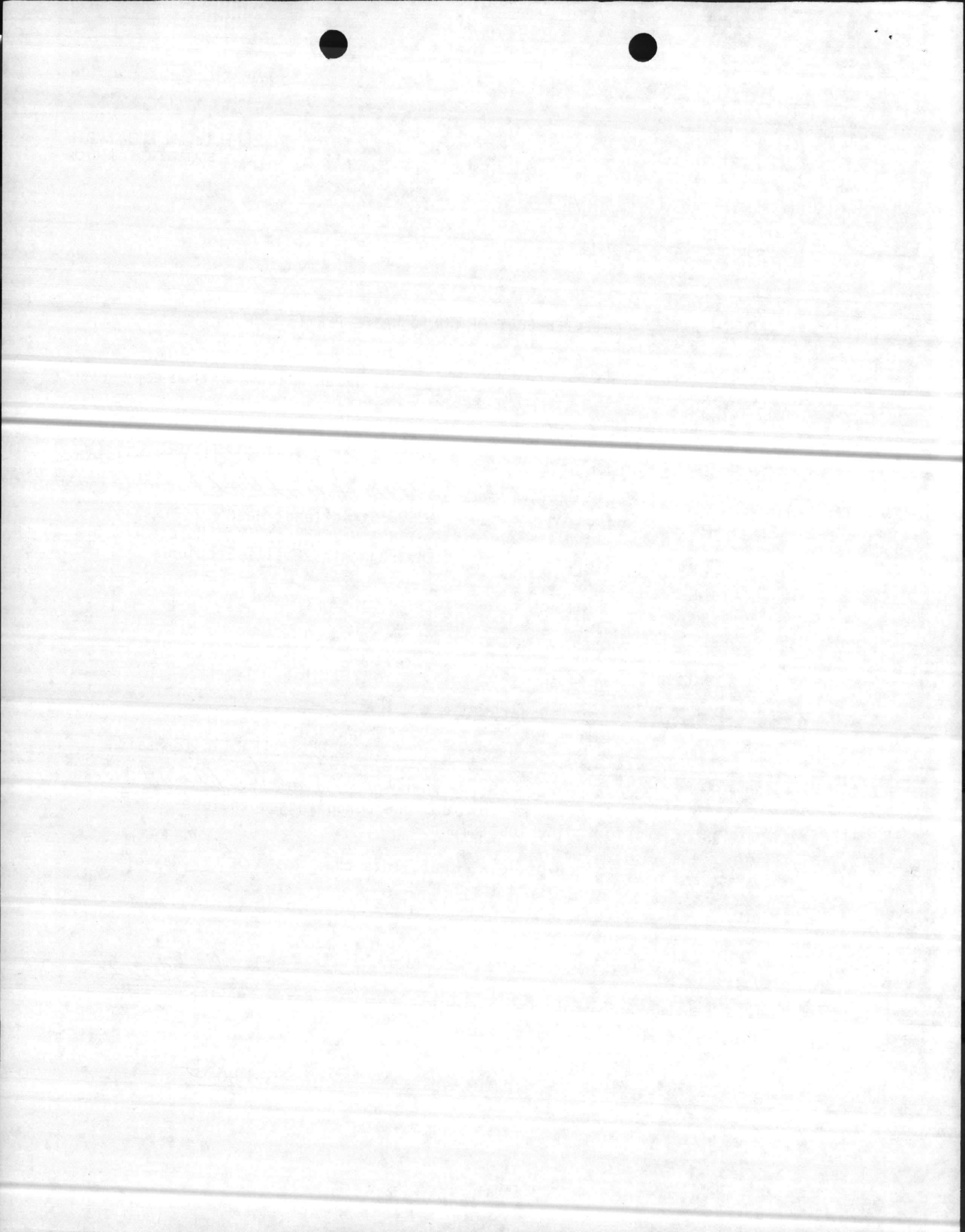
I, Dee L. Sellers, a Notary Public for said  
County and State, do hereby certify that O. W. Strickland  
personally appeared before me this day and acknowledged the due  
execution of the foregoing instrument.

Witness my hand and official seal, this the 20<sup>th</sup> day of  
July, 19 82.



Dee L. Sellers  
Notary Public

My commission expires July 24, 19 82.

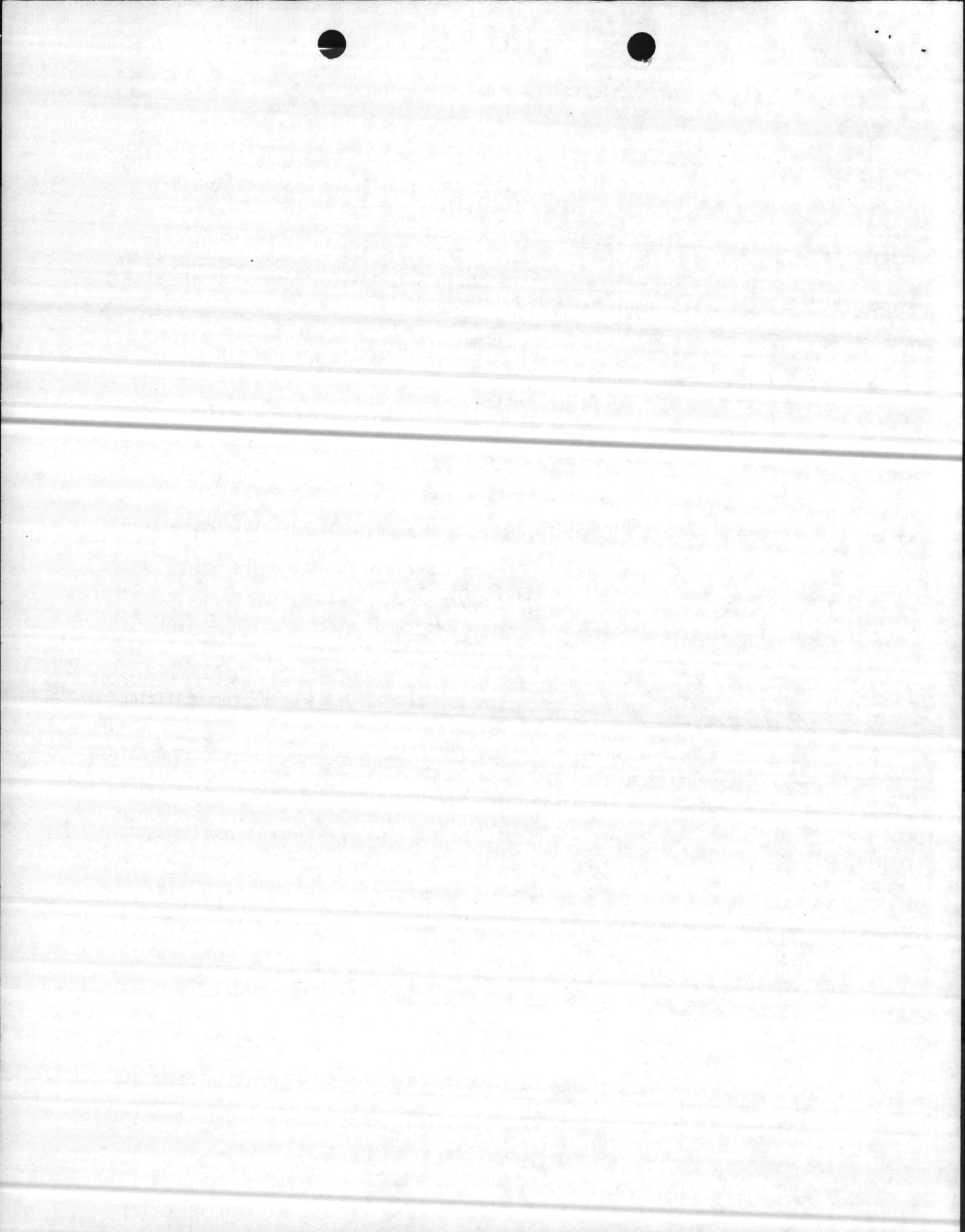


SANITARY LANDFILL OPERATING REQUIREMENTS  
(See Note 1)

1. The following actions should be initiated by Director, Operations Division:
  - a. Effect the design and installation of four state approved monitoring wells (See Note 1) at the sanitary landfill.
  - b. Develop a job order to construct a sediment basin at the north west end of the sanitary landfill. Plans and specifications for the existing basin at the south east end of the landfill should be used as a guide. At the same time, stabilize any inactive areas of the landfill.
  - c. Provide ongoing engineering support required to ensure that slopes/grades/elevations of cuts and fills at landfill are consistent with state requirements (See Note 1).
2. The following action should be initiated by Director, M&R Division (See Note 1):
  - a. Review the state permit/operating plan carefully with personnel operating the landfill.
  - b. Provide a gate attendant at all times when the landfill is open.
  - c. Ensure that flyash is leveled and covered with dirt daily.
  - d. Reduce active working surfaces (areas) to a minimum and stabilize inactive surfaces (areas) with vegetation, mulch or other erosion control materials.
3. It is suggested that representatives of the M&R Branch and Natural Resources Branch conduct joint periodic inspections of the landfill operation utilizing state inspection format.
4. It is recommended that as soon as sediment basin/drainage outlet is provided at north west end of the landfill the tank trail through landfill be realigned, straightened and routed along the location where putrecible and non-putrecible waste cells join (See Note 1). Construction debris should be used as fill to bring road bed up to existing elevation of top of landfill and normal ground.

Note 1: The above requirements were developed based on information contained in North Carolina Division of Health Services Permit #67-03 issued on 7/20/82 and related operation plans prepared by McDowell-Jones, PA, Elizabeth City, North Carolina.





11350/1  
NREAD  
17 June 1985

From: Director, Natural Resources and Environmental Affairs  
Division, Marine Corps Base, Camp Lejeune  
To: Assistant Chief of Staff, Facilities (Attn: Environmental  
Engineer), Marine Corps Base, Camp Lejeune

Subj: ARMY CORPS OF ENGINEERS PERMIT RENEWAL

Encl: (1) COE, Wilmington ltr SAWCO82-M-067-0170 of 25 June 1982

1. The permit for river shore stabilization near the Sneads Ferry Gate, see enclosure (1), expires on 31 December 1985. It is recommended that this permit be renewed.

J. I. WOOTEN

Copy to:  
PWO

Writer: D. Sharpe, NREAD 5003  
Typist: J. Cross 17Jun85

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LT  
ELWITT  
451-2581

JUN 25 1982

SAWCO82-W-067-0170

25 June 1982

SUBJECT: Request for Permit

Marine Corps Base  
Base Maintenance Department  
ATTN: F. H. Mount  
Camp Lejeune, NC 28576

1. In accordance with the written request of 1 March 1982 and the ensuing administrative record, inclosed is a permit to place bank stabilization material below the elevation of high water on the New River at Camp Lejeune, Onslow County, North Carolina.
2. If any change in the authorized work is required because of unforeseen or altered conditions or for any other reason, the plans revised to show the change must be sent promptly to this office. Such action is necessary as revised plans must be reviewed and the permit modified.
3. Please carefully read your permit. The general and special conditions are important. Your failure to comply with these conditions could result in a violation of Federal law. Certain significant general conditions require that:
  - a. You must complete construction before 31 December 1985.
  - b. You must notify this office in advance as to when you intend to commence and complete work.
  - c. You must allow representatives from this office to make periodic visits to your workite as deemed necessary to assure compliance with permit plans and conditions.
4. The inclosed Notice of Authorization, EMG Form 4336, must be conspicuously displayed at your workite.

2 Incl  
1. Permit  
2. EMG Form 4336

Copy furnished w/cy Incl 1:  
Director, Atlantic Marine Center  
National Ocean Survey, NOAA  
ATTN: CAMO4, 439 W. York Street  
Norfolk, VA 23510

Blind CF w/cy Spec Cond & Plans;  
Inspector

Blind CF:  
SAWCO-KF/Ramel

ROBERT K. HUGHES  
Colonel, Corps of E  
Commanding

Copy Furnished w/cy  
Office of Coastal M  
N.C. Department of  
and Community Dev  
PO Box 769  
Morehead City, NC

Encl (1)

