6240 NREAD 22 Mar 1985 An-

Mr. William L. Meyer, Head Solid and Hazardous Waste Management Branch Environmental Health Section Division of Health Services Post Office Box 2091 Raleigh, North Carolina 27602-2091

Dear Sir:

The enclosed information (Attachments A through E) is submitted as requested by Mr. O. W. Strickland's letter GDB:plg/1546A of December 3, 1984. As discussed with Mr. Gary Babb of your staff, please advise of additional information required by your office.

The monitoring wells were installed by STS Consultants, LTD., Raleigh, North Carolina under Navy Contract N62470-83-C-5827 (same as STS Job Number 3158-AA). Please feel free to contact STS consultants relative to records they may have.

Questions regarding this matter should be directed to Mr. Danny Sharpe of my staff at (919)-451-2083.

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Sincerely,

J. I. WOOTEN Director

Encl: (1) with Attachments A-E

Writer: J. I. Wooten, NREAD 5003

Typist: J. Cross 22Mar85

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### Sanitary Landfill, Camp Lejeune, NC

1. The type of waste landfilled at the disposal site, in the past and at present.

Putrescible and non-putrescible wastes including house hold and industrial garbage and refuse, fly ash, demolition debris, asbetos and other solid waste. No hazardous waste permitted.

- 2. Chemical composition of waste, including reaction by-products. Not applicable
- 3. Any anticipated change or variability in the waste stream. None
- 4. Attach a map of the landfill site with the location of existing monitoring wells, water supply wells, streams (label whether intermittent or perennial), and springs within 1/4 mile of facility. The map should be at a scale of not greater than 1" = 200 ft.
- 5. Any water supply wells indicated should show an approximate pumping rate, unless the well is for residential use only.

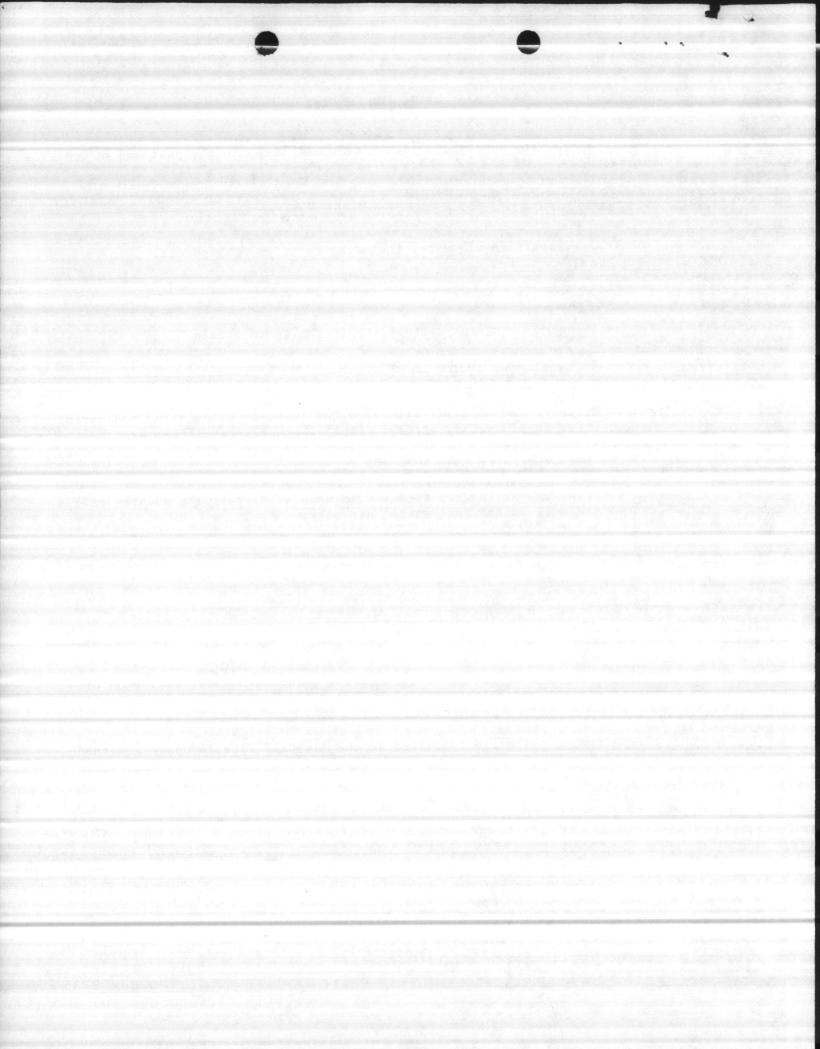
  See Attachment (A)
- 6. Approximate depth to groundwater at the landfill.

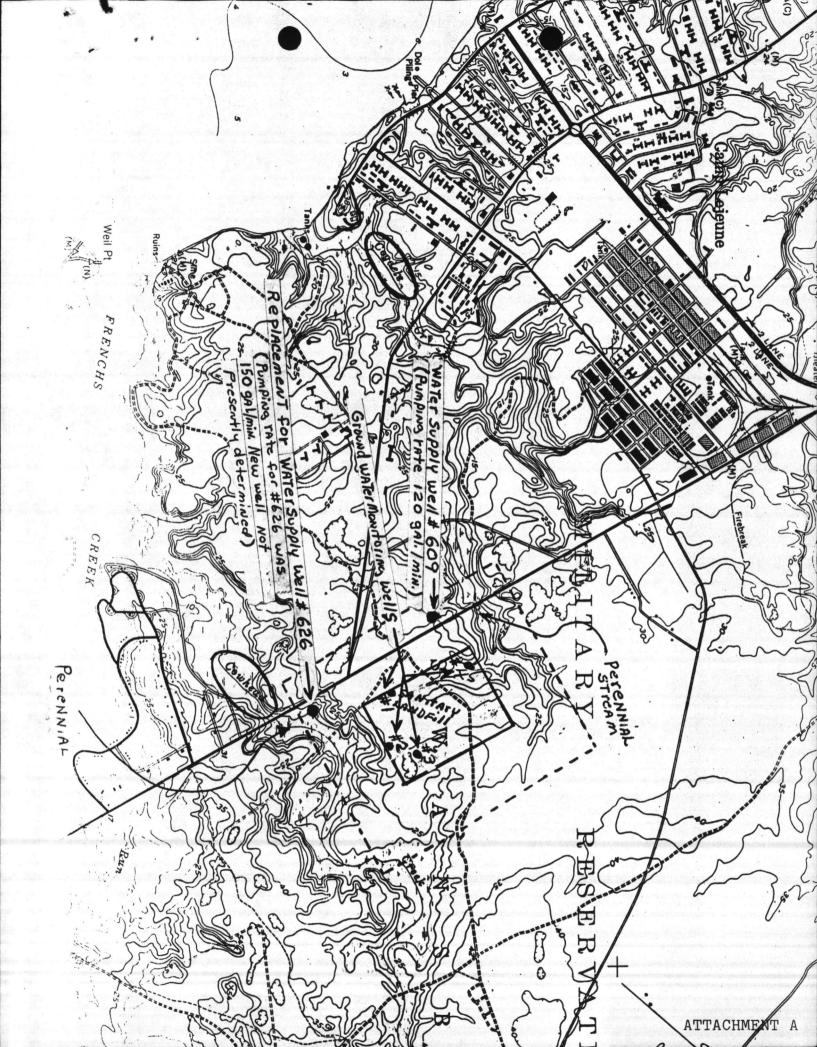
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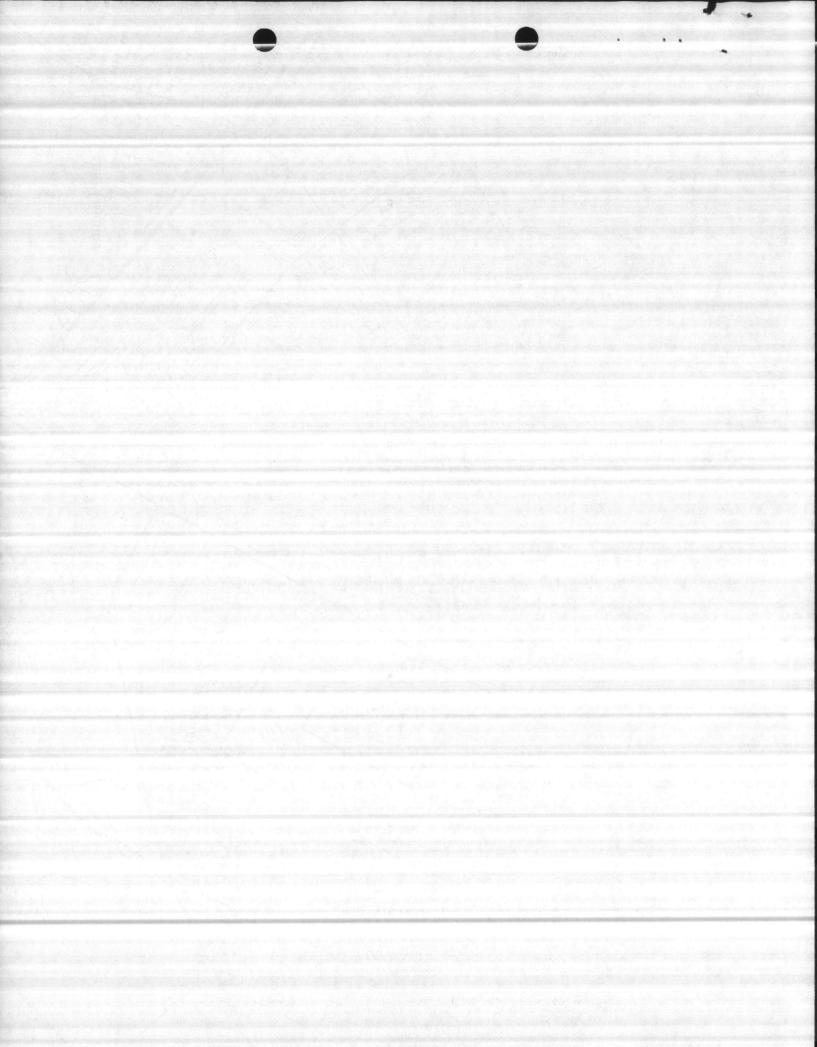
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Plaza Station, Greensboro, NC (See results in Attachments (D) and (E).







## MONITORING WELL DATA Sanitary Landfill, Camp Lejeune

Well #1

Casting Height to Ground 26.75" = 2.2 ft

From Casting to Water 15.5 ft (on 23 Aug 84)

Water Depth from ground 13.3 ft

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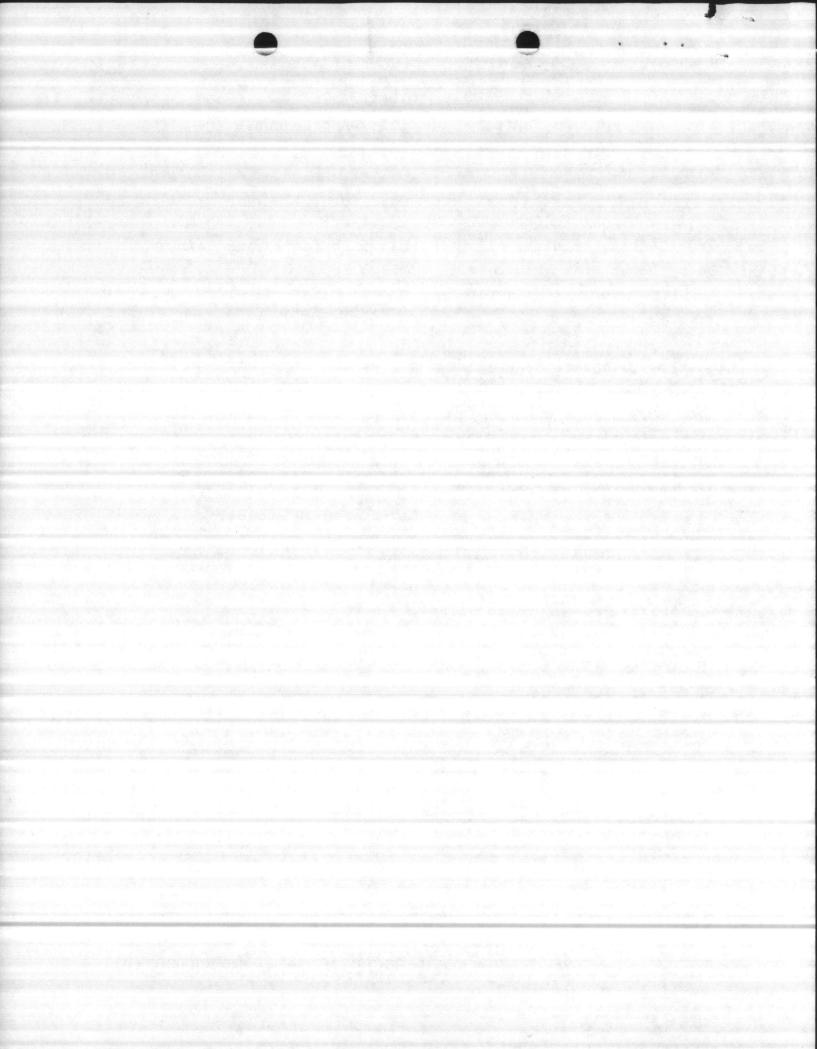
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Water Depth from Ground 3.4





10 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40820

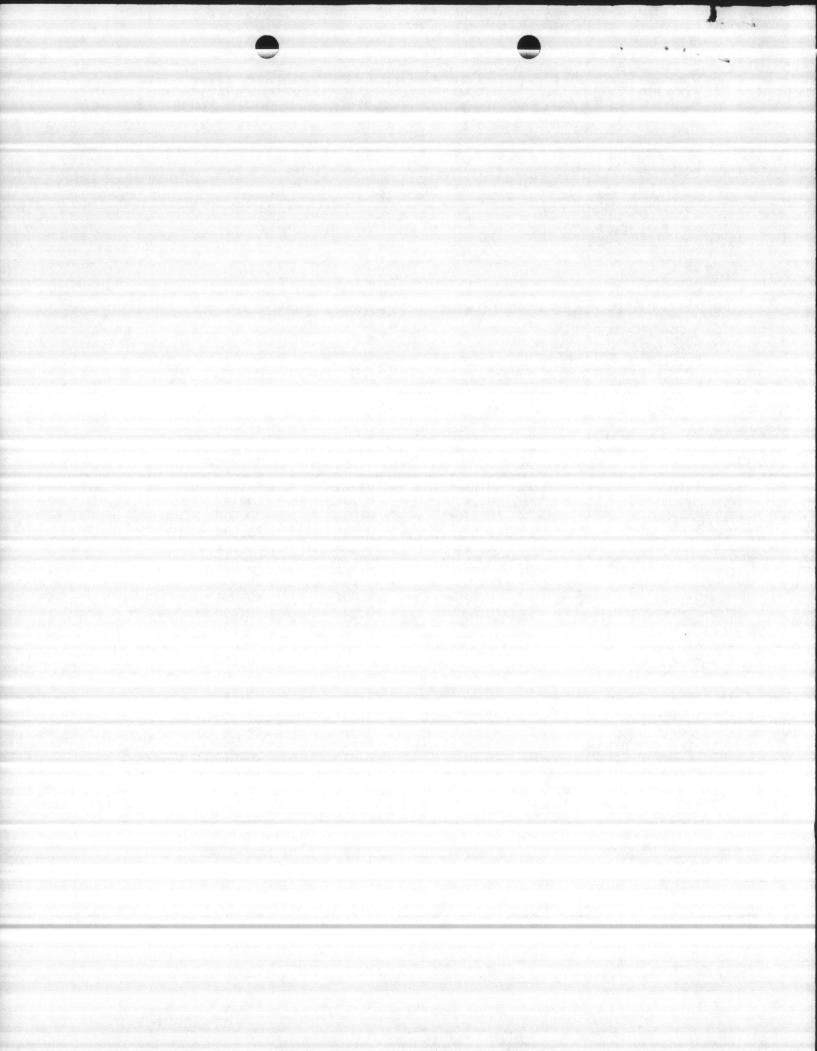
CUSTOMER: UNITED STATES MARINE CORPS.

SAMPLES: #3145 WELL #1 #3146 WELL #2 #3147 WELL #3

RESULTS			
RESULIS	<u>#3145</u>	<u>#3146</u>	#3147
ARSENIC (ppm)	<0.001	<0.001	<0.001
BARIUM(ppm)	0.147	0.147	0.147
CADMIUM(ppm)	0.010	0.003	0.006
CHROMIUM(ppm)	0.026	0.020	. 0.008
LEAD(ppm)	0.164	0.144	0.164
MERCURY (ppm)	<0.001	<0.001	<0.001
SELENIUM(ppm)	<0.001	<0.001	<0.001
SILVER(ppm)	0.022	<0.001	<0.001
NITRATE NITROGEN(ppm)	0.54	0.34	0.40
FLUORIDE(ppm)	0.60	0.11	<0.10
CHLORIDE(ppm)	2.2	10.4	3.8
COPPER(ppm)	0.027	<0.001	0.006
COLOR(PT/CO units)	10.00	35.00	50.00
IRON(ppm)	8.68	1.86	5.78
MANGANESE(ppm)	0.104	0.005	0.026
SULFATE(ppm)	66.6	4.61	10.09
Hq	6.56	6.51	7.25
TOTAL ORGANIC HALOGEN(ppm)	<0.01	<0.01	<0.01
TOTAL ORGANIC CARBON (ppm)	43.5	13.0	10.5
			The second second second second second

GUILFORD LABORATORIES, INC

J.A.RAYBURN





16 NOVEMBER 1984

### REPORT OF ANALYSIS

JOB#: DN41105

CUSTOMER: DEPT. OF NAVY - MARINE CORP.

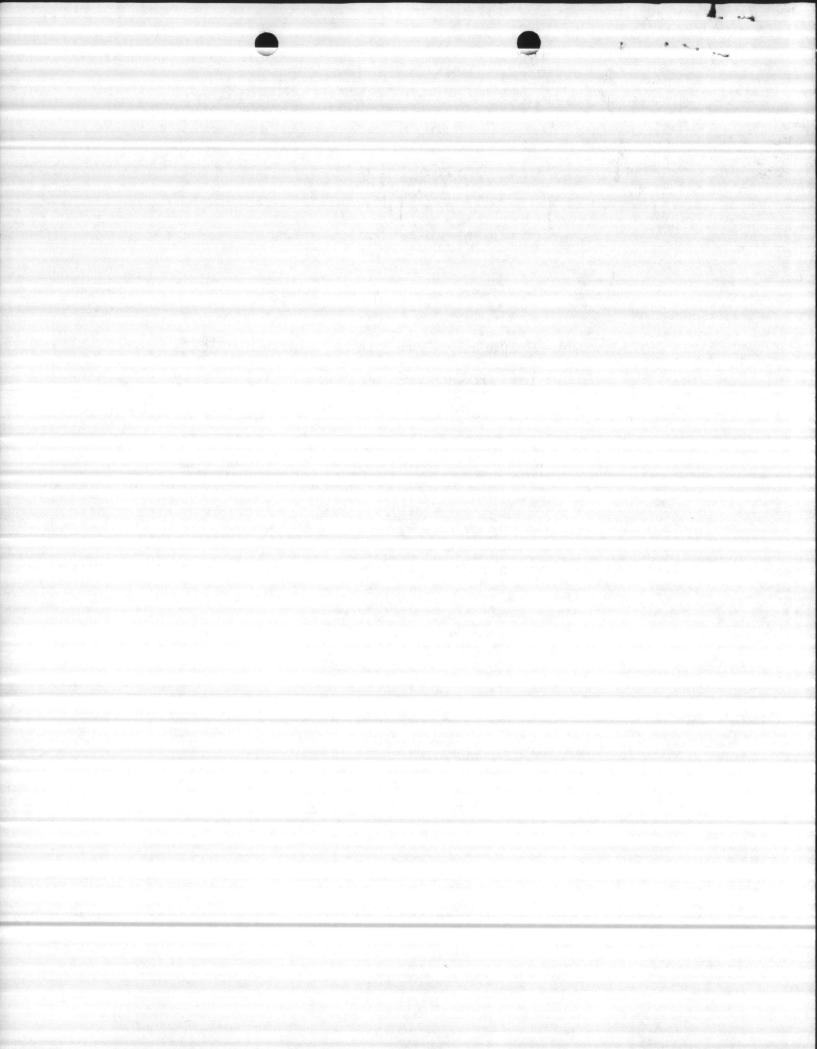
SAMPLES: #4107 SANITARY LANDFILL WELL #4

#### RESULTS

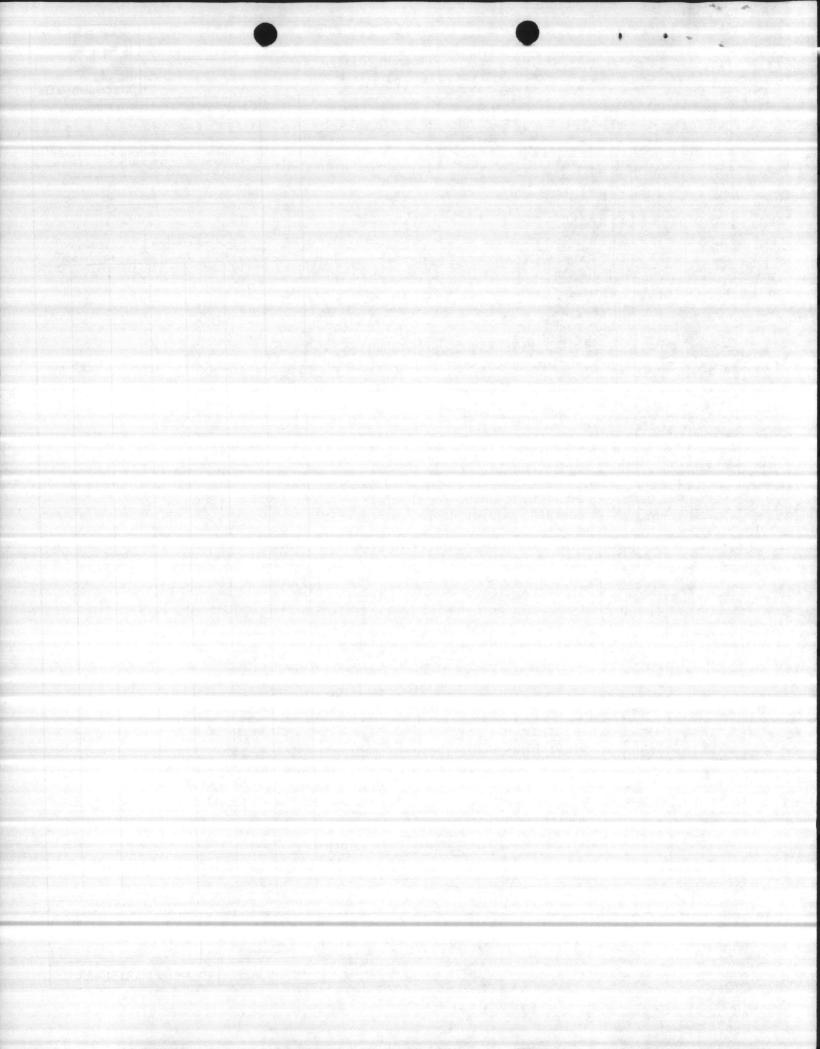
	<u>#4107</u>
ARSENIC(ppm)	0.0029
BARIUM(ppm)	0.5
CADMIUM(ppm)	0.039
CHROMIUM(ppm)	0.10
LEAD(ppm)	0.305
MERCURY(ppm)	<0.001
SELENIUM(ppm)	<0.001
SILVER(ppm)	0.023
IRON(ppm)	14.31
MANGANESE(ppm)	0.233
ZINC(ppm)	0.041
SULFATE(ppm)	11.37
TOTAL DISSOLVED SOLIDS (ppm)	329.8
CONDUCTIVITY(uhmos)	490.0
TOX(ppm)	<0.01
TOC(ppm)	22.0

GUILFORD LABORATORIES, INC.

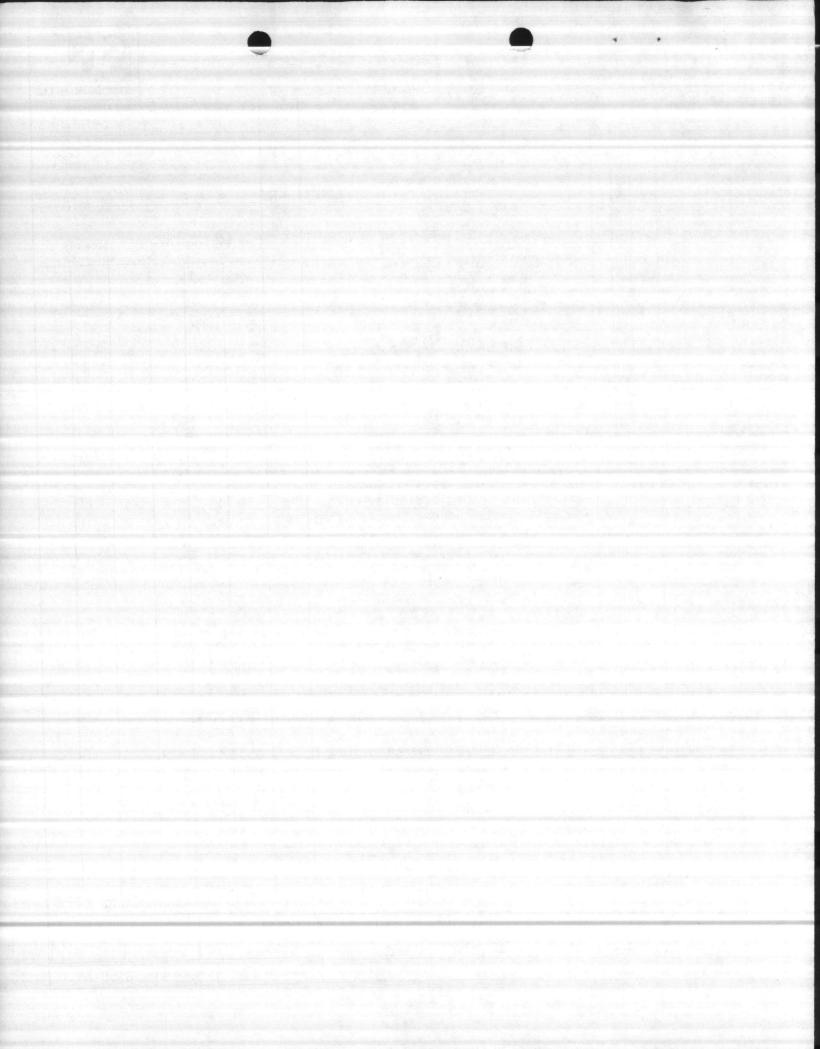
J.A. RAYBURN



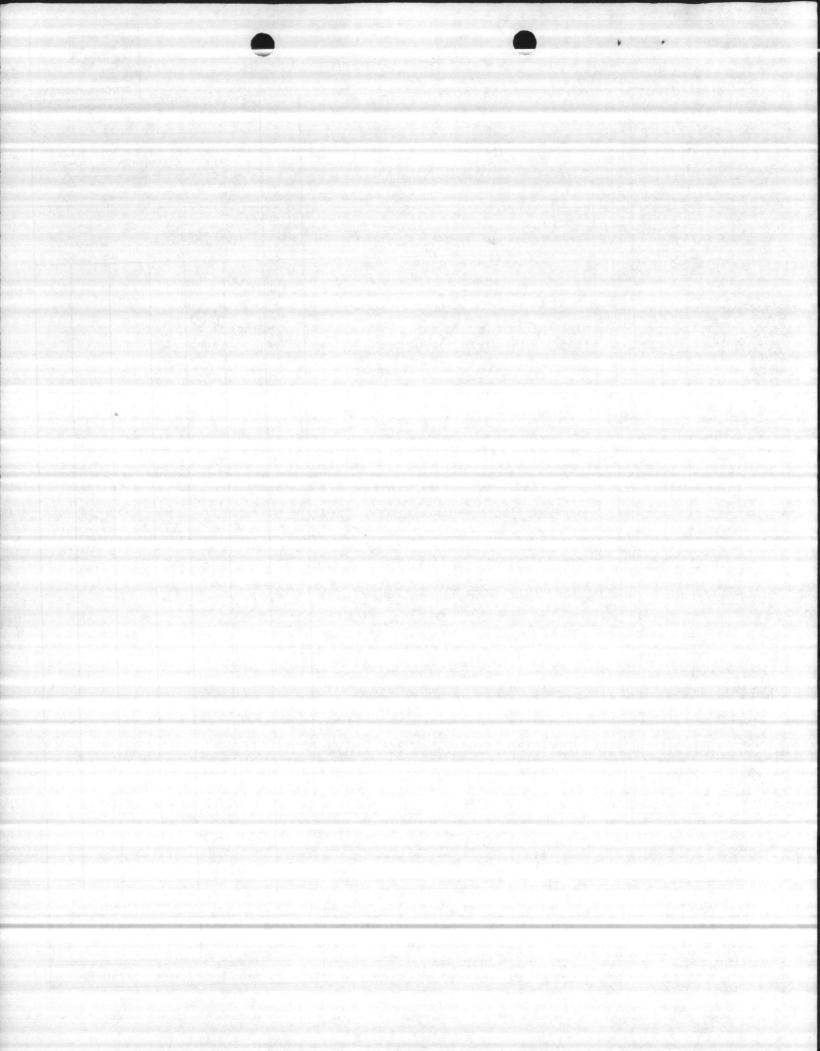
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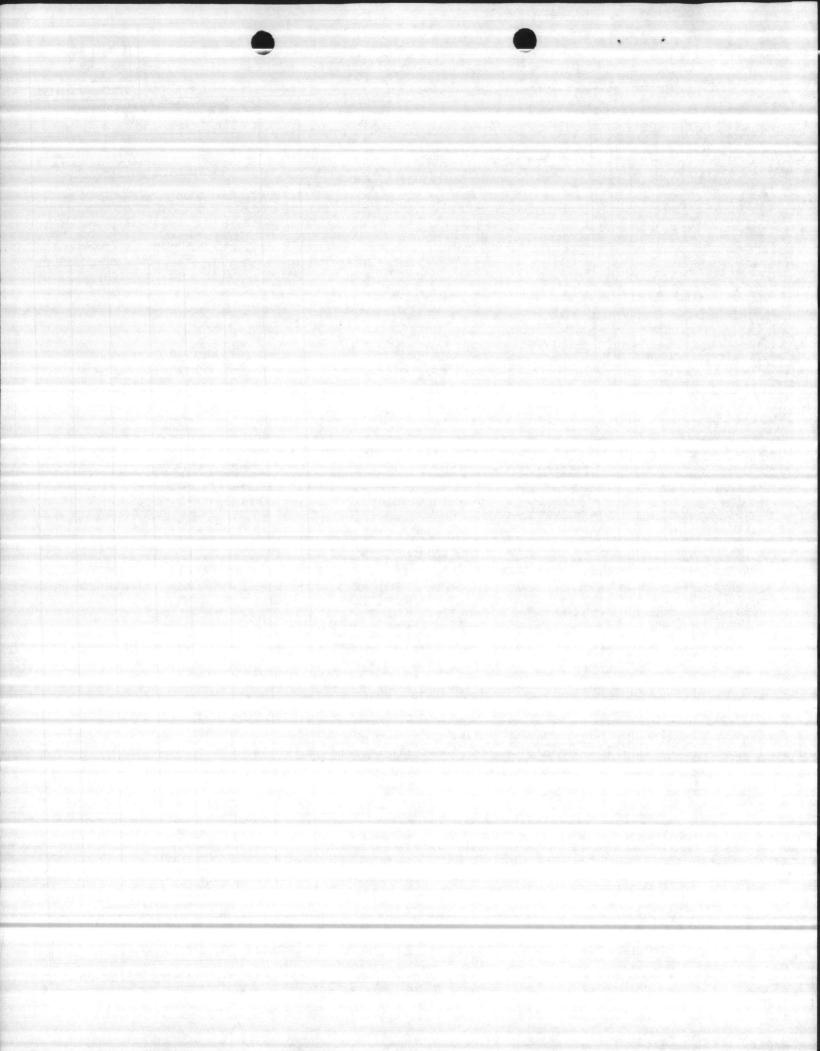
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,0					BORING TERM Hollow stem		29.0' used full depth								
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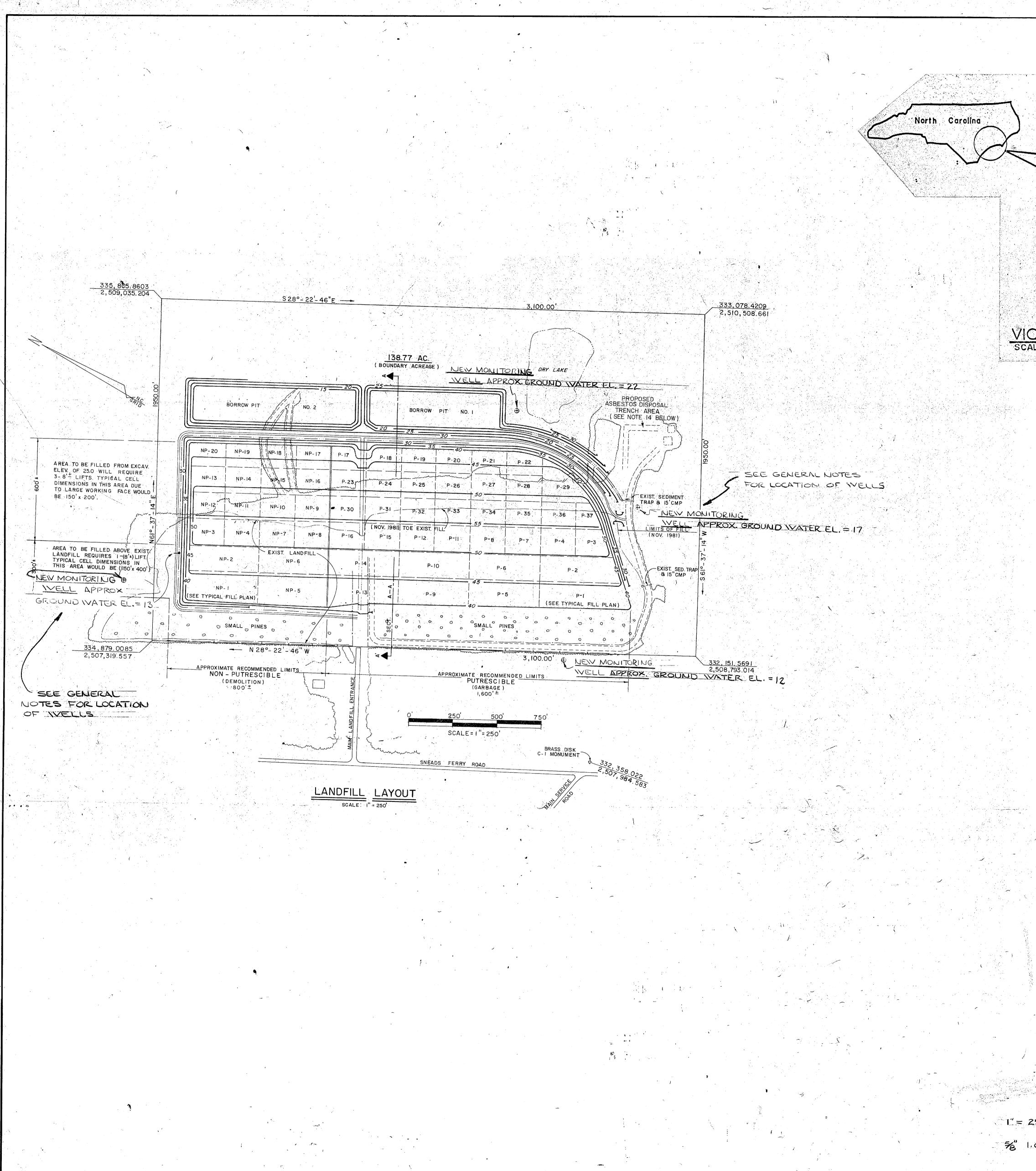


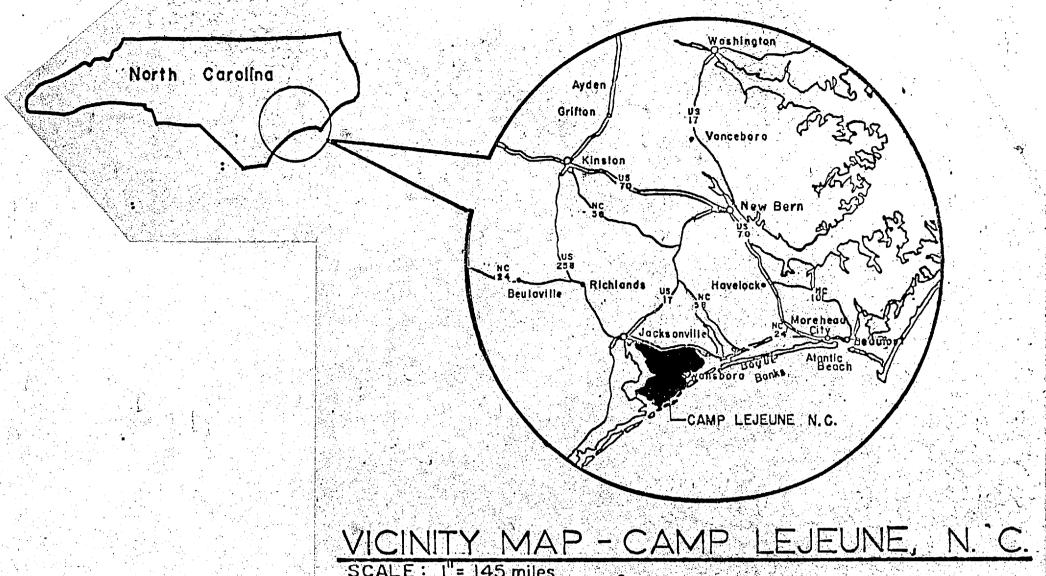
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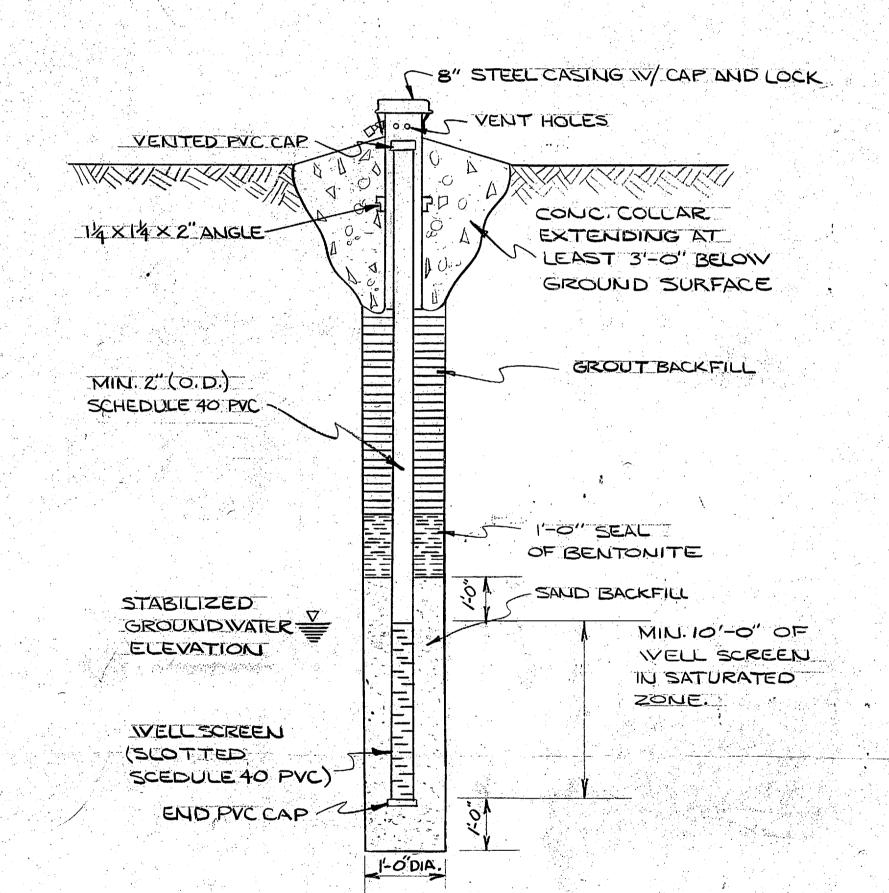


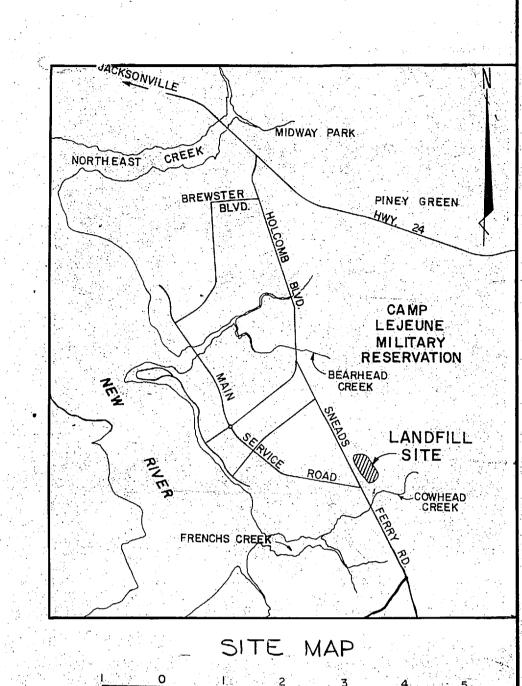
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15					FINE SAND, tr dense, light	ace silt, medium grey. (SW)			8	17				
				1	SILTY FINE SAI	ND, loose, white.		88						
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		BCH				COMPLETED	818 Com	Aprile List						
		Assembly .			RIG A	TV FOREMAN SPT	APP'D B	Y WJS	STS	ON BOL	315	8-AA		











GENERAL NOTES

I ALL PVC CONNECTION SHALL
BE CLAMPS OR THREADED
FITTINGS. NO EPOXY CEMENT
/ VILL BE PERMITTED

2. SAND SHALLBE WASHED TO REMOVE ALL FINES TO PREVENT CLOGGING OF THE WELL SCREEN.

3. LOCATION OF MONITORING

IVELLS TO BE STAKED

OUT BY THE GOVERNMENT

4. PROVIDE SIGNS FOR EACH

IVELL LABLED "NOT POTABLE

WATER FOR MONITORING ONLY."

\_\_\_\_,5, MAINTAIN A LITHOLOGIC LOG

OF FORMATIONS PEHETRATED &

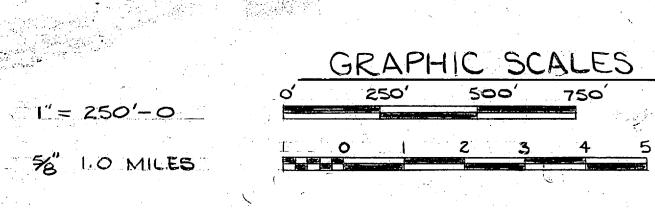
TAKE SAMPLES (I QUART) OF EACH

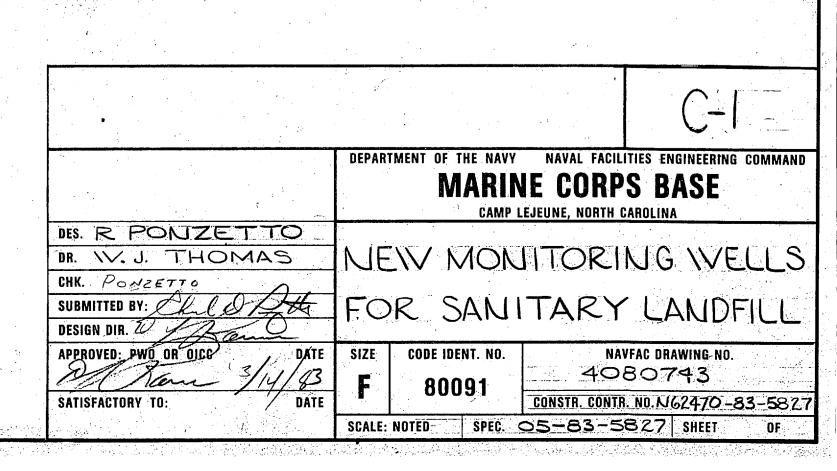
L. FORMATION, LOG & SAMPLES

WILL BE TURNED OVER TO

COVERHMENT

TYPICAL GROUND WATER MONITORING WELL





6240 NREAD 22 Mar 1985

Mr. William L. Meyer, Head Solid and Hazardous Waste Management Branch Environmental Health Section Division of Health Services Post Office Box 2091 Raleigh, North Carolina 27602-2091

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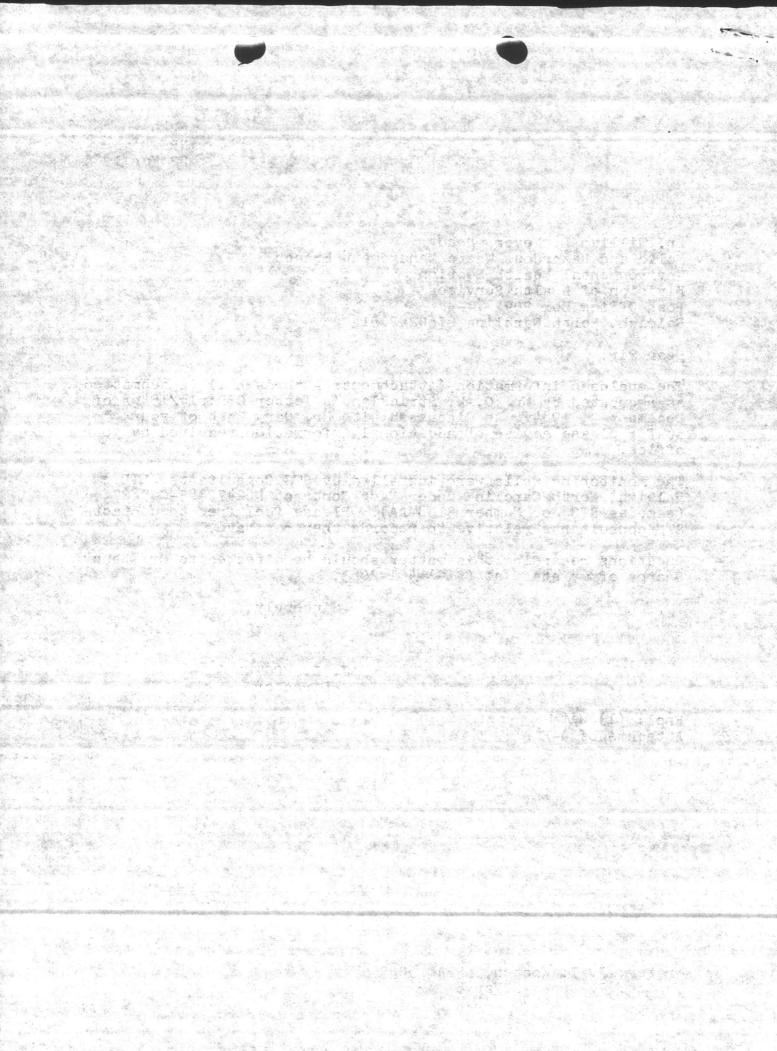
J. I. WOOTEN
Director

Encl: (1) with Attachments A-E

Writer: J. I. Wooten, NREAD 5003

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Typist: J. Cross 22Mar85



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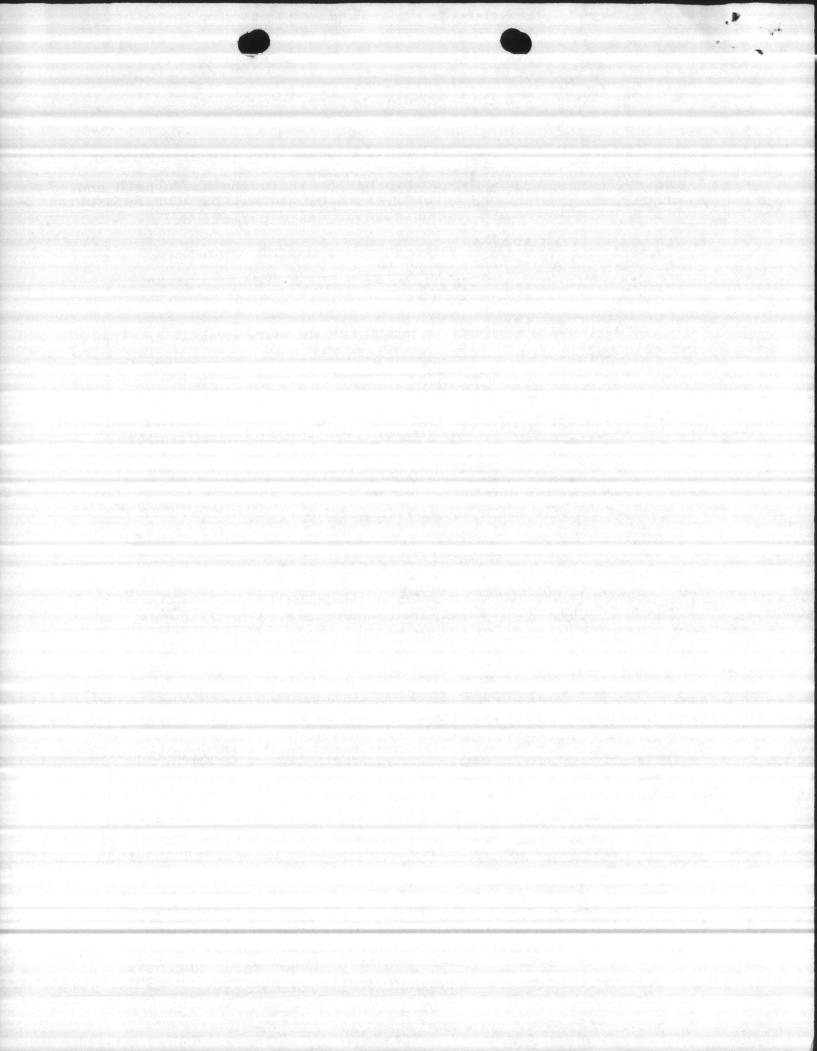
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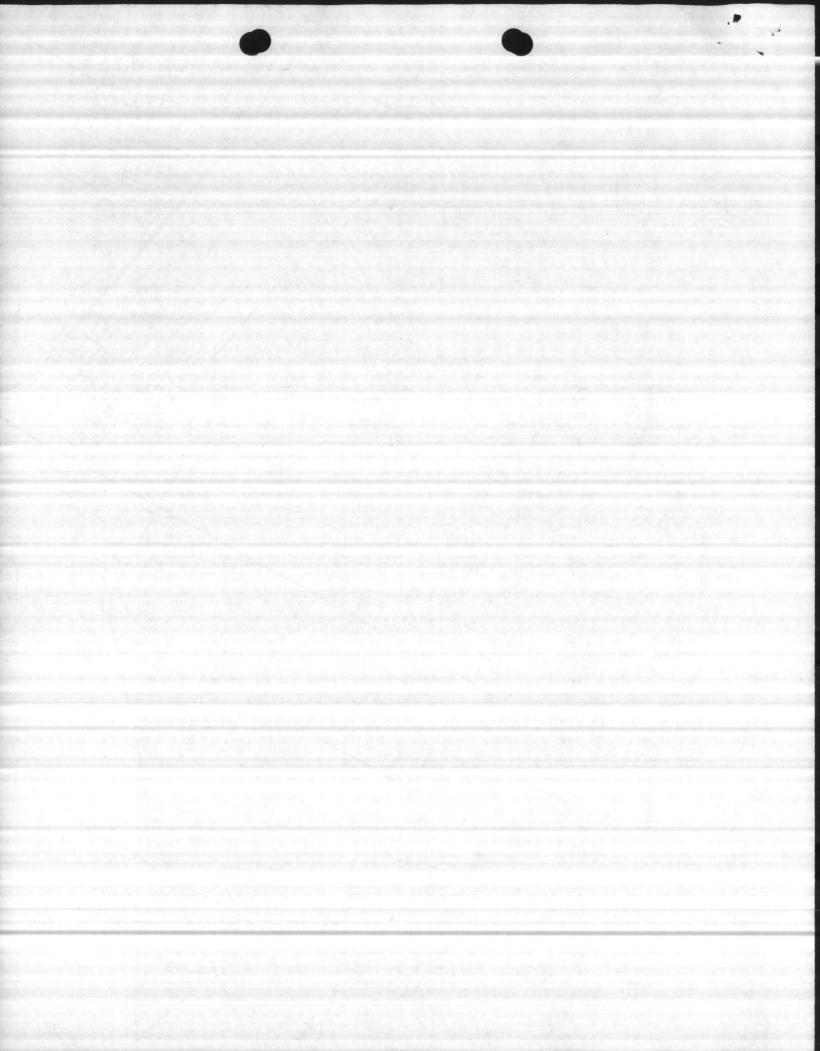
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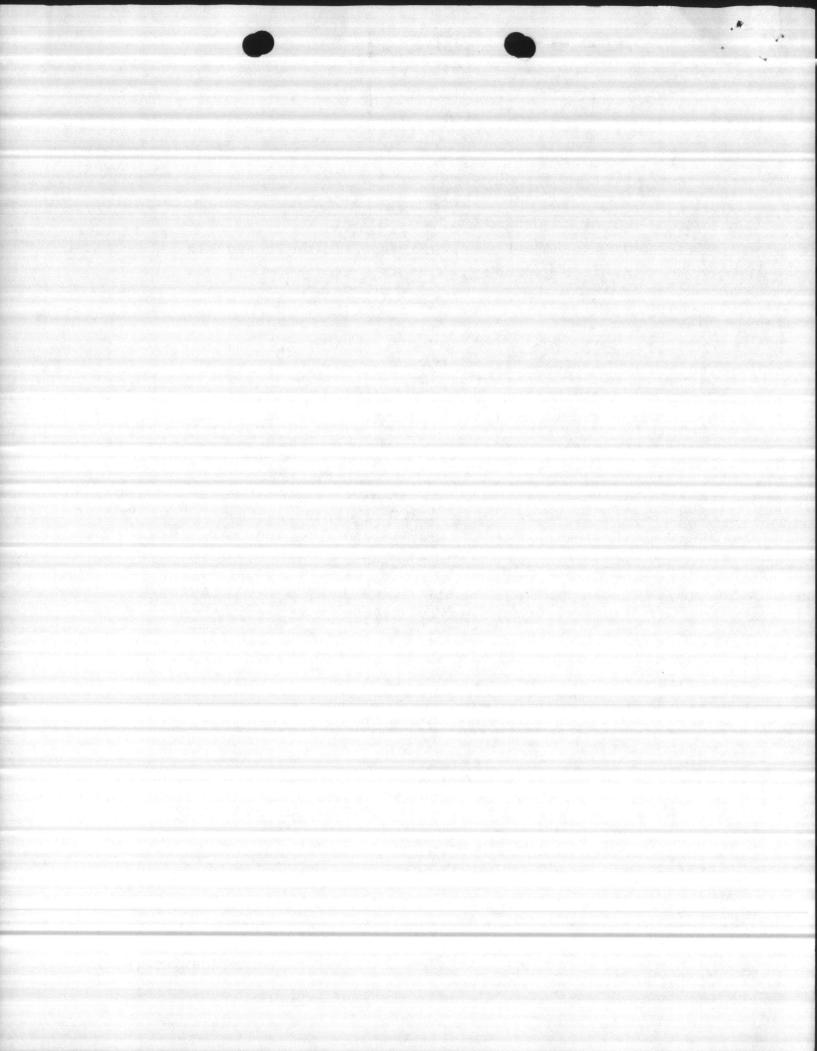
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10 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40820

CUSTOMER: UNITED STATES MARINE CORPS.

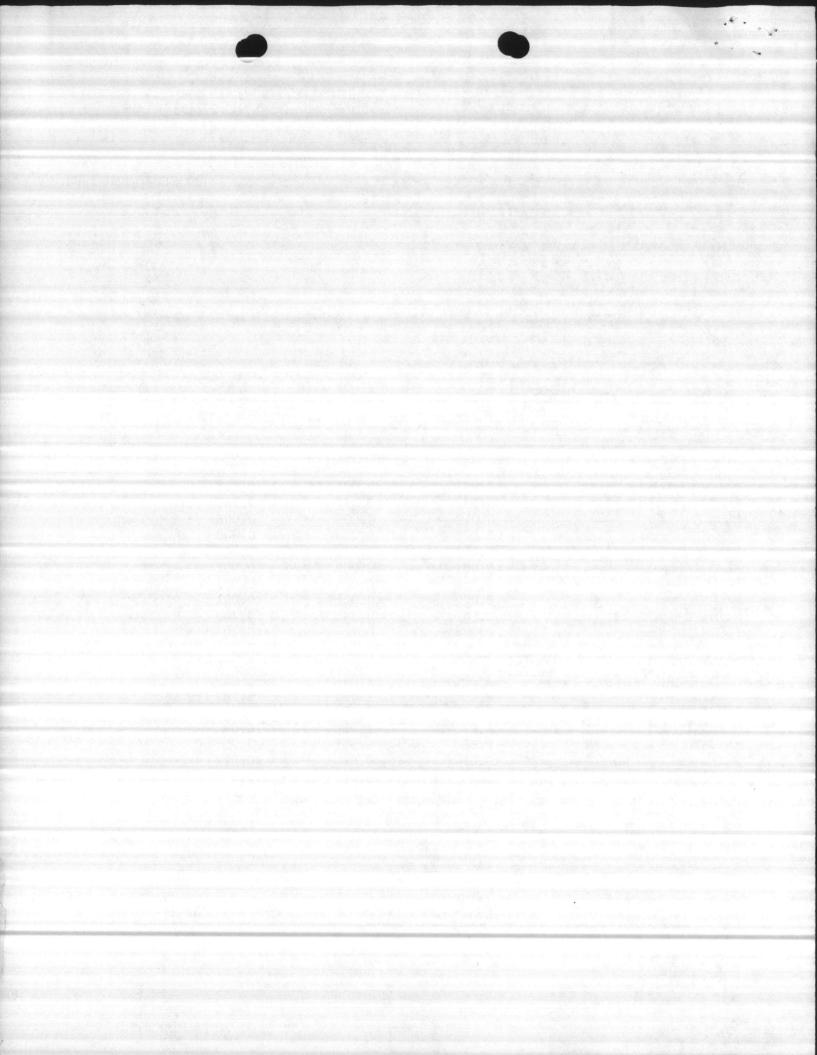
SAMPLES: #3145 WELL #1 #3146 WELL #2

#3147 WELL #3

and the second second		Ŋ
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0.164	0.144	0.164
<0.001	<0.001	<0.001
<0.001	<0.001	<0.001
0.022	<0.001	<0.001
0.54	0.34	0.40
0.60	0.11	<0.10
2.2	10.4	3.8
0.027	<0.001	0.006
10.00	35.00	50.00
8.68	1.86	5.78
0.104	0.005	0.026
66.6	4.61	10.09
6.56	6.51	7.25
<0.01	<0.01	<0.01
43.5	13.0	10.5
	<0.001 0.147 0.010 0.026 0.164 <0.001 <0.001 0.022 0.54 0.60 2.2 0.027 10.00 8.68 0.104 66.6 -6.56 <0.01	<pre>&lt;0.001</pre>

GUILFORD LABORATORIES, INC

J.A.RAYBURN





**16 NOVEMBER 1984** 

### REPORT OF ANALYSIS

JOB#: DN41105

CUSTOMER: DEPT. OF NAVY - MARINE CORP.

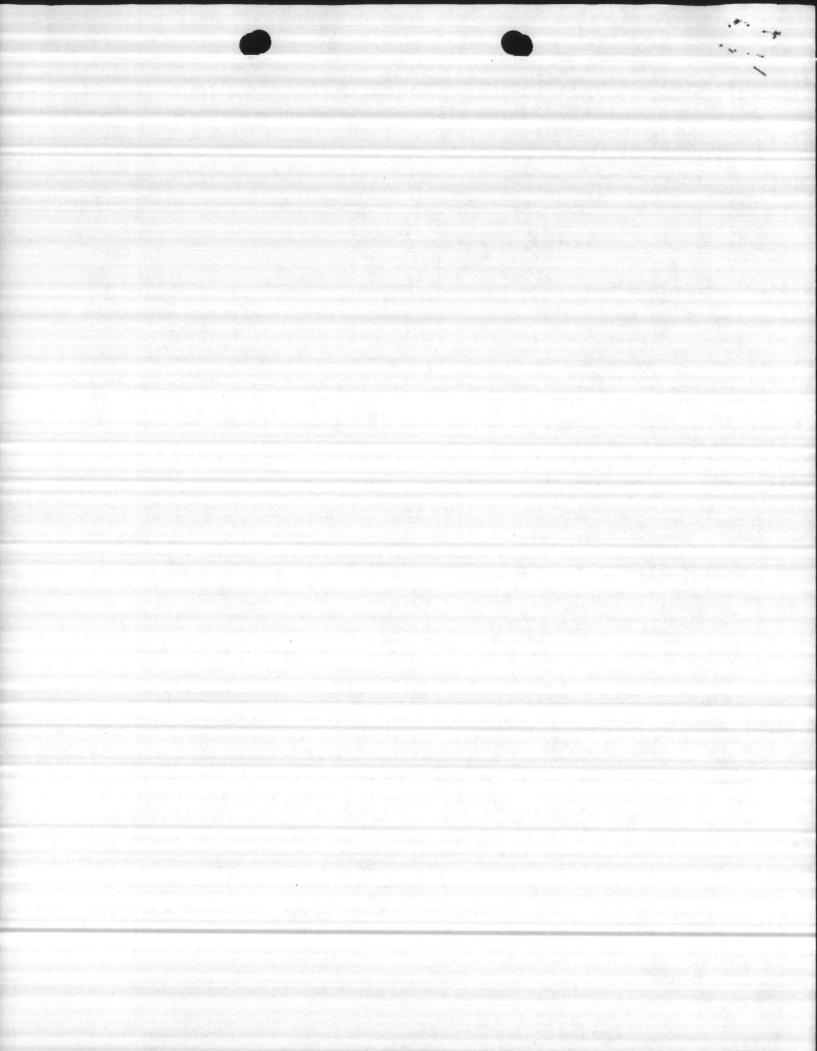
SAMPLES: #4107 SANITARY LANDFILL WELL #4

### RESULTS

	#4107
ADCENIC (mom)	0.0000
ARSENIC (ppm)	0.0029
BARIUM(ppm)	0.5
CADMIUM(ppm)	. 0.039
CHROMIUM(ppm)	0.10
LEAD(ppm)	0.305
MERCURY(ppm)	<0.001
SELENIUM(ppm)	<0.001
SILVER(ppm)	0.023
IRON(ppm)	14.31
MANGANESE(ppm)	0.233
ZINC(ppm)	0.041
SULFATE(ppm)	11.37
TOTAL DISSOLVED SOLIDS (ppm)	329.8
CONDUCTIVITY (uhmos)	490.0
TOX(ppm)	<0.01
TOC(ppm)	22.0

GUILFORD LABORATORIES, INC.

J.A. RAYBURN





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

December 3, 1984

Mr. Danny Sharpe Environmental Affairs Division Marine Corps Base Camp LeJeune, NC 28542

Dear Mr. Sharpe:

Re: Groundwater and Surface Water Quality Monitoring

In accordance with 10 NCAC 10G Section .0600 (adopted April 1, 1982), Camp LeJeune is required to provide groundwater and surface water quality data to this office to monitor the effects of the facility on water quality.

This office will establish the constituents to be evaluated, the number and location of monitoring points, and the frequency of monitoring. In order to specify the monitoring program for Camp LeJeune, please complete the attached form.

Please submit this completed form and direct any questions to Mr. Gary Babb of my staff by January 1, 1985.

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existing walls, are samples collected

collangor Aud (absentory)

Sincerely.

W. Strickland, Head rich reports the tuding by the topic and a section of

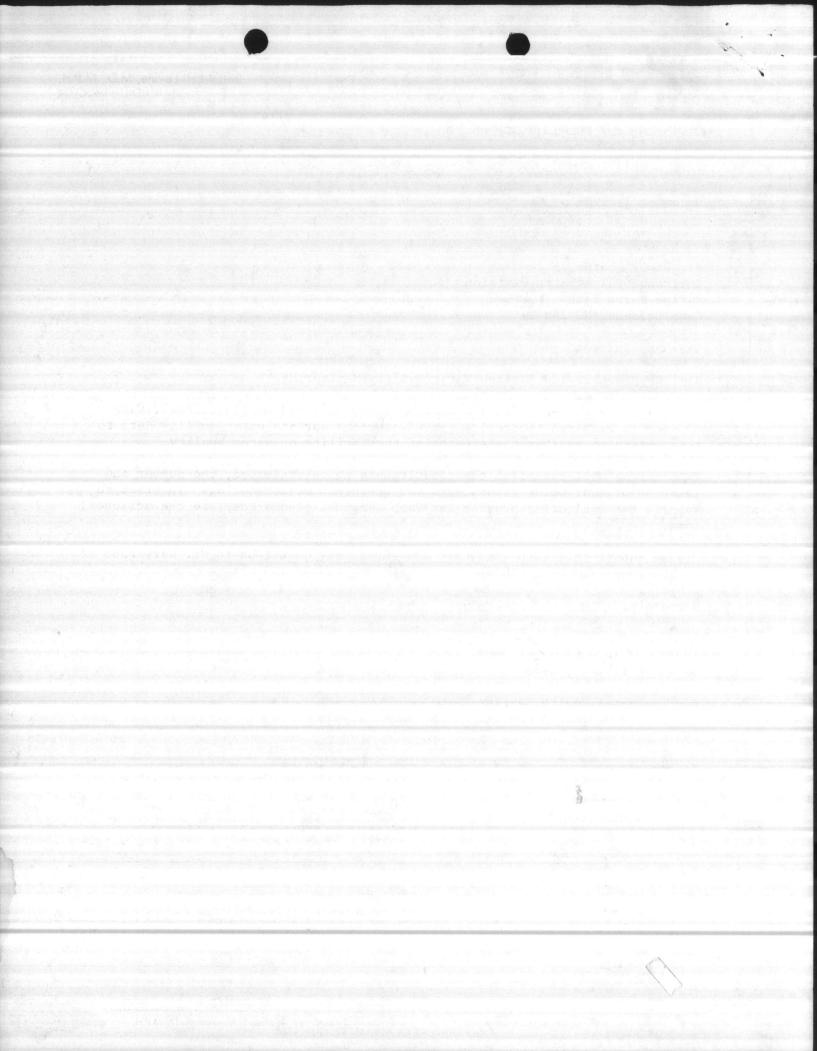
Solid & Hazardous Waste Management Branch Branch Environmental Health Section

GDB:plg/1546A

Enclosure

cc: Terry Dover
Julian Foscue
Field Staff

40



# SANITON LANd Fill CAMP Legenre NC.

	를 보고 있다. 그런 그런 그런 사람들은 그런 사람들이 가장 되었다. 그런
1.	The type of waste landfilled at the disposal site, in the past and at
	present.
Pu	trescible And Non Putrescible wastes including house hold and
100	dustrial Garbage and refuse fly och demolition delvis, asbeslass dether Bolid waste, No hazardors waste permitted
	other solid waste in hazalacus waste permitted
2.	Chemical composition of waste, including reaction by-products.
	NOT Applicable
_	
3.	Any anticipated change or variability in the waste stream.
-	NONE
-	
4.	Attach a map of the landfill site with the location of existing monitoring
	wells, water supply wells, streams (label whether intermittent or
	perennial), and springs within 1/4 mile of facility. The map should be at a scale of not greater than 1" = 200 ft.
	a scale of not greater than 1 = 200 ft.
5.	Any water supply wells indicated should show an approximate pumping rate,
	unless the well is for residential use only.
	see attached and See attachment (a)
6. MC A t	Approximate depth to groundwater at the landfill.  Dowell-Jones P.A. defermined water table to be 22.0ft.  tach ment (b) shows findings when sampled.
7.	Attach well completion reports, including lithologic data, elevation of top of casing, and height of casing above land surface, for all existing wells. See Attachment (C)
8.	If monitoring wells are installed at the distance of the
•	If monitoring wells are installed at the disposal site, propose a method to pull samples from wells, containerize samples, and ship to laboratory
	for analysis. (The attached form may be completed for this item if
-22	applicable).
SAN	uple contourers provided by contract LAL with preservative if required, An ISCO
wol	unes are pumped out And then samples pulled And placed into Containers.
SAM	des are used down immediately and shipped incl down to contract late
Atta	ach sheet if necessary.
9.	If there are existing wells, are samples collected and analyzed? If so,
0 1	by whom (i.e., collector and laboratory)? 1984 samples were handled a follow
	ector: Quality Control Laboratory NREAD, Marine Corps Base Camp Legeunt
1475	in Csee results in A Hackment (d) and (e) to change
14/5	A Cose results in A Hackman (a) and (e) + to change)

Santon Lond field Compleyer Mc

See Attackness (2)

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see results in a Hackman (d) ..