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

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.

Sincerely,

J. I. WOOTEN
Director

Encl: (1) with
Attachments A-E

Writer: J. I. Wooten, NREAD 5003
Typist: J. Cross 22Mar85

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.

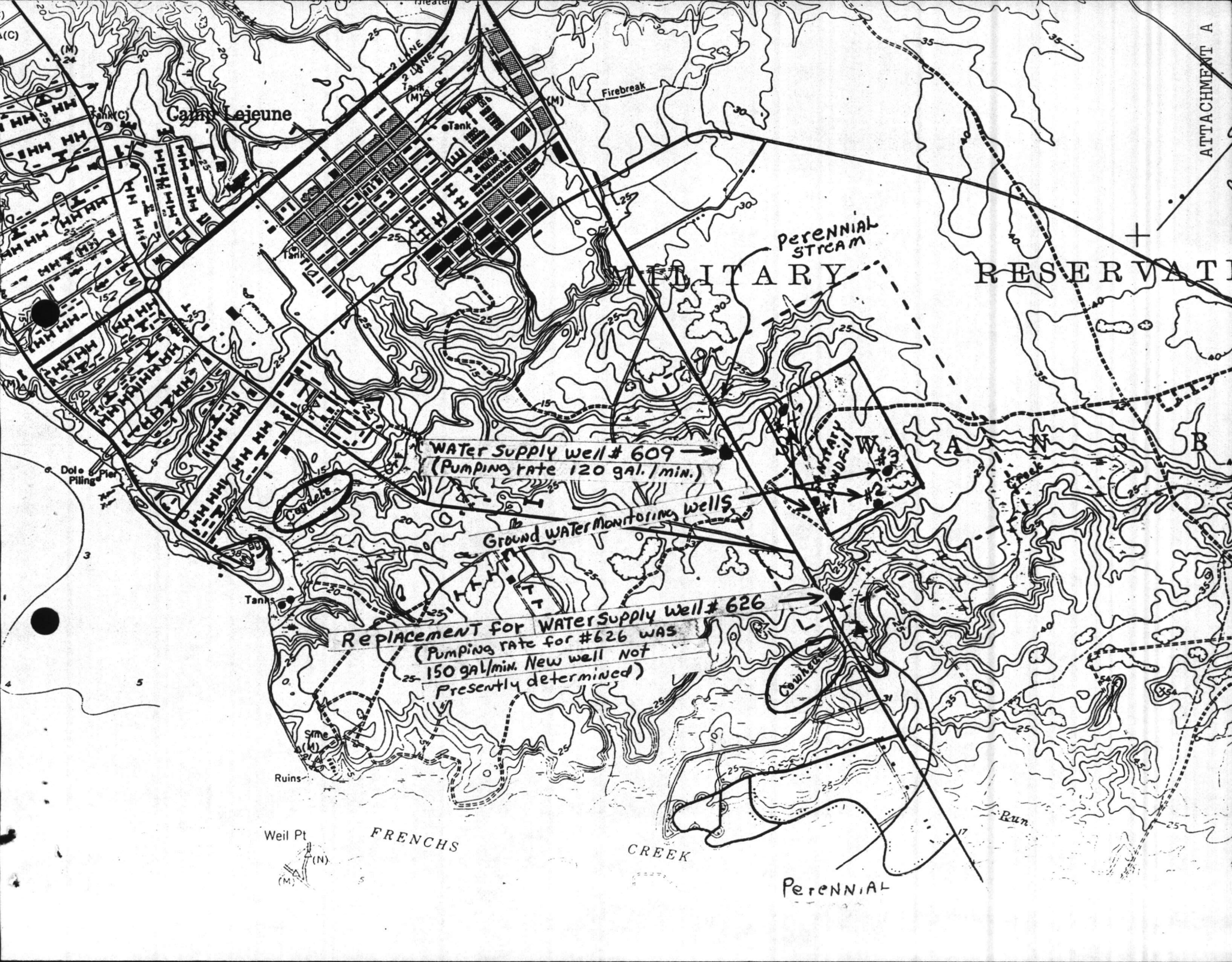
McDowell-Jones, P.A. determined watertable to be 22.0 ft. Attachment (B) shows findings when sampled.

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 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 applicable).

Sample containers provided by contract lab with preservative, if required. An ISCO sampler is used to take sample. Volume of water in well is determined. Three volumes are pumped out and then samples pulled and placed into containers. Samples are iced down immediately and shipped iced down to contract lab.

9. If there are existing wells, are samples collected and analyzed? If so, by whom (i.e., collector and laboratory)? 1984 samples were handled as follows: Collector: Quality Control Laboratory, NREAD, Marine Corps Base Camp Lejeune - Laboratory: Guilford Laboratory, PO Box 9735 Plaza Station, Greensboro, NC (See results in Attachments (D) and (E).


ATTACHMENT A
Camp Lejeune
Firebreak
Tank
Perennial stream
MILITARY RESERVATI
A N S B
Creek
Water Supply well # 609
(Pumping rate 120 gal./min.)
Ground Water Monitoring wells
#1
#2
#3
Dole Pier Piling
Tanks
Replacement for Water Supply Well # 626
(Pumping rate for #626 was 150 gal/min. New well not presently determined)
Ruins
Weil Pt
FRENCHS
CREEK
Perennial
Run

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	"

Well #2

Casting Height to Ground 26" =	2.2 ft	
From Casting to Water	3 ft	(on 23 Aug 84)
Water Depth from Ground	0.8 ft	"

Well #3

Casting Height to Ground 27" =	2.3 ft	
From Casting to Water	9.5 ft	(on 23 Aug 84)
Water Depth from Ground	7.2 ft	"

Well #4

Casting Height to Ground 31.5" =	2.6 ft	
From Casting to Water	6 ft	(on 30 Oct 84)
Water Depth from Ground	3.4	"

ATTACHMENT (B)

GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

10 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40820

CUSTOMER: UNITED STATES MARINE CORPS.

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

RESULTS

	#3145	#3146	#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
pH	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

GUILFORD LABORATORIES, INC

J. A. Rayburn
SHM

J.A.RAYBURN

ATTACHMENT D

GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

16 NOVEMBER 1984

REPORT OF ANALYSIS

JOB#: DN41105

CUSTOMER: DEPT. OF NAVY - MARINE CORP.

SAMPLES: #4107 SANITARY LANDFILL WELL #4

RESULTS

	#4107
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 Jr

J.A. RAYBURN

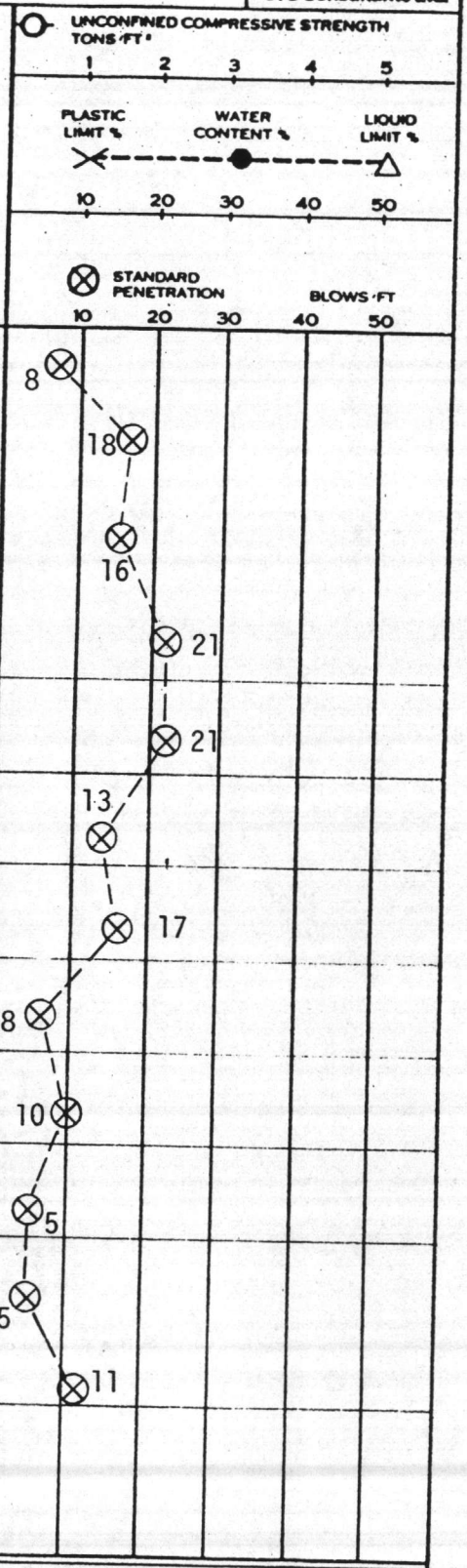
ATTACHMENT E

OWNER	LOG OF BORING NUMBER
U. S. Naval Facility	B-3
PROJECT NAME	**ARCHITECT-ENGINEER**
Camp Lejeune	

STS Consultants Ltd.

SITE LOCATION Camp Lejeune

ELEVATION / DEPTH	SAMPLE NO.	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL / SURFACE ELEVATION	UNIT DRY WT. LBS./FT.³
					SILTY FINE SAND, very loose to medium dense, tan and grey. (SM)	
5						
10					FINE SAND, trace silt, medium dense, white. (SP)	
					SILTY FINE SAND, local clay pockets, medium dense, white. (SM)	
15					FINE SAND, trace silt, medium dense, light grey. (SW)	
					SILTY FINE SAND, loose, white. (SM)	
20					SILTY MEDIUM SAND, medium dense, grey and orange. (SM)	
					CLAYEY FINE to COARSE SAND, trace silt, loose, dark grey. (SC)	
25					SILTY FINE SAND, loose to medium dense, dark grey. (SM)	
30					BORING TERMINATED 29.0' Hollow stem auger used full depth	



THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES IN SITU THE TRANSITION MAY BE GRADUAL

WL	WS OR WD	BORING STARTED 8-15-83	RALEIGH
WL BCR	ACR	BORING COMPLETED	
WL		RIG ATV FOREMAN SPT	APP'D BY WJS / STS JOB NO 3158-AA

BL 1

OWNER	LOG OF BORING NUMBER
U. S. Naval Facil	B-3
PROJECT NAME	**ARCHITECT-ENGINEER**
Camp Lejeune	

STS Consultants Ltd.

SITE LOCATION Camp Lejeune

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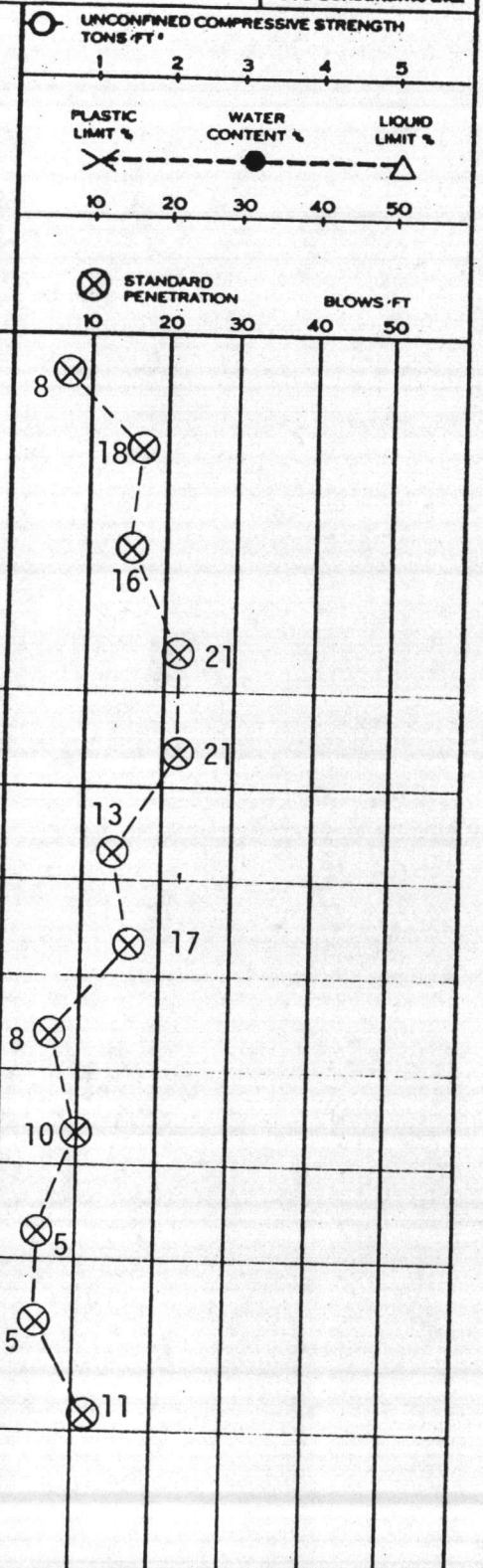
30					BORING TERMINATED 29.0' Hollow stem auger used full depth	



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WL	WS OR WD	BORING STARTED 8-15-83	RALEIGH
WL BCR	ACR	BORING COMPLETED	
WL		RIG ATV FOREMAN SPT	APP'D BY WJS / STS JOB NO 3158-AA

BL 1

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U. S. Naval Facil	B-3
PROJECT NAME	**ARCHITECT-ENGINEER**
Camp Lejeune	

STS Consultants Ltd.

SITE LOCATION Camp Lejeune

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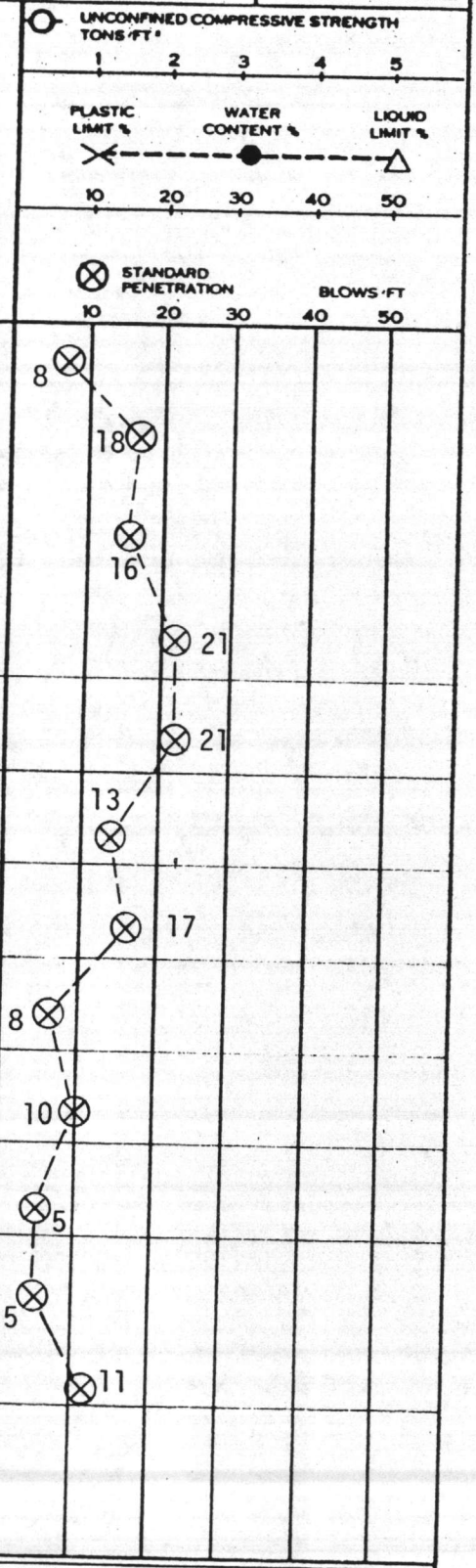

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WL WS OR WD	BORING STARTED 8-15-83	STS Consultants Ltd.	RALEIGH
WL BCR ACR	BORING COMPLETED		
WL	RIG ATV FOREMAN SPT	APP'D BY WJS	STS JOB NO 3158-AA

BL1

OWNER	LOG OF BORING NUMBER
U. S. Naval Facil	B-3
PROJECT NAME	**ARCHITECT-ENGINEER**
Camp Lejeune	
SITE LOCATION	
Camp Lejeune	

STS Consultants Ltd.

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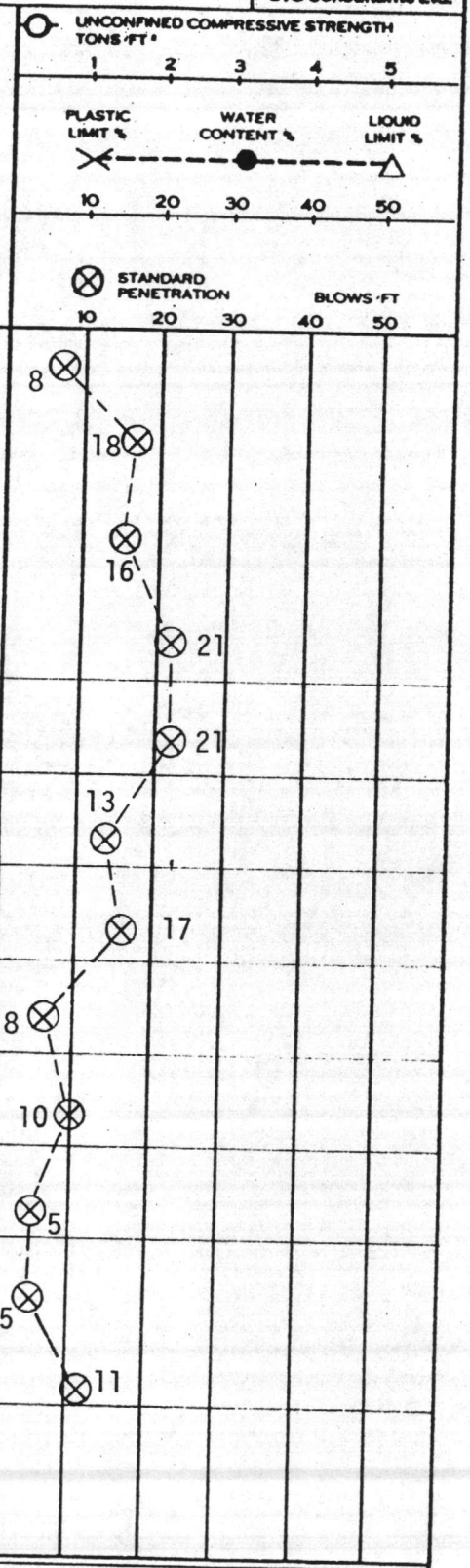

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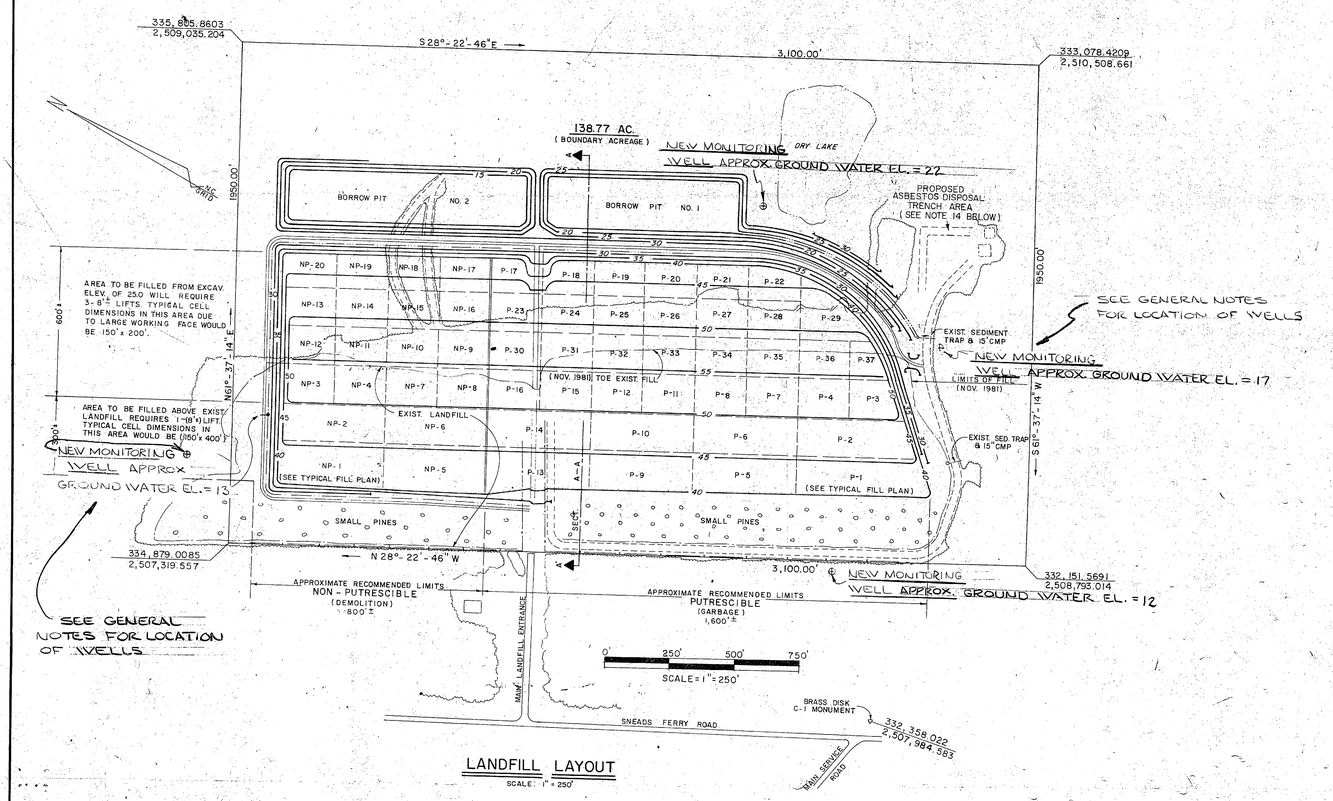
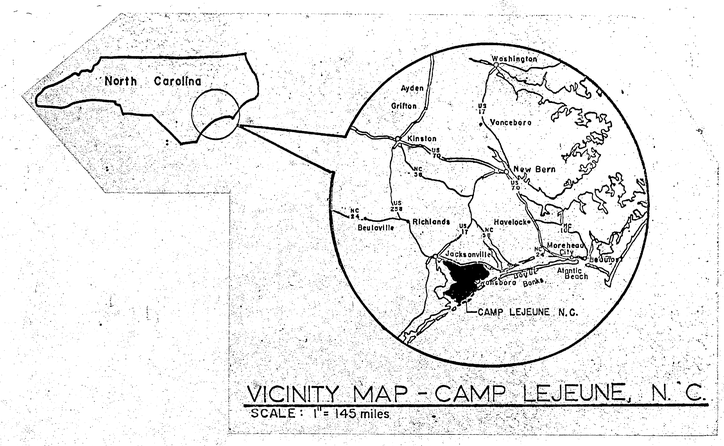
WL BCR	ACR	BORING COMPLETED	
WL		RIG ATV FOREMAN SPT	APP'D BY WJS / STS JOB NO 3158-AA

BL1



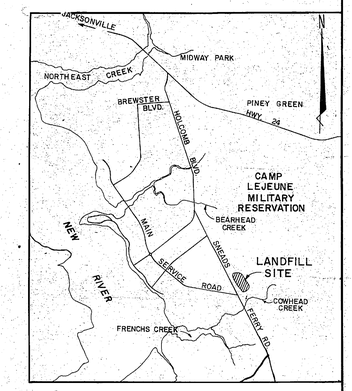
LANDFILL LAYOUT

SCALE: 1" = 250'



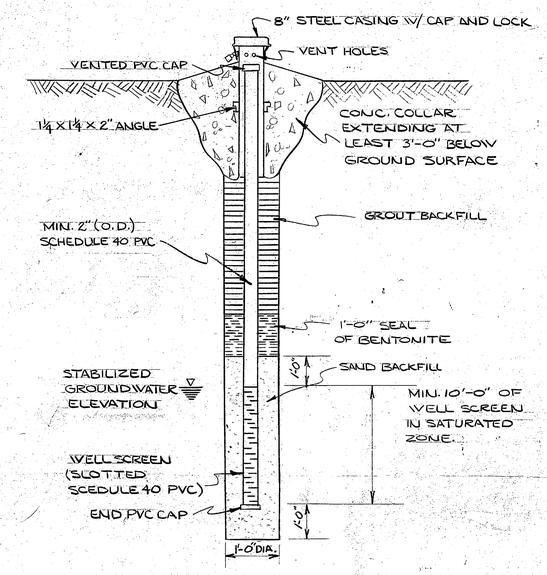
VICINITY MAP - CAMP LEJEUNE, N.C.

SCALE: 1" = 145 miles



SITE MAP

SCALE: 5/8" = 1.0 MILE



TYPICAL GROUND WATER MONITORING WELL

N.T.S.

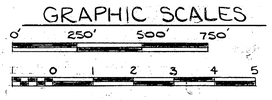
GENERAL NOTES

1. ALL PVC CONNECTION SHALL BE CLAMPS OR THREADED FITTINGS. NO EPOXY CEMENT WILL BE PERMITTED.
2. SAND SHALL BE WASHED TO REMOVE ALL FINES TO PREVENT CLOGGING OF THE WELL SCREEN.
3. LOCATION OF MONITORING WELLS TO BE STAKED OUT BY THE GOVERNMENT
4. PROVIDE SIGNS FOR EACH WELL LABLED "NOT POTABLE WATER FOR MONITORING ONLY."
5. MAINTAIN A LITHOLOGIC LOG OF FORMATIONS PENETRATED & TAKE SAMPLES (1 QUART) OF EACH FORMATION. LOG & SAMPLES WILL BE TURNED OVER TO GOVERNMENT.

GRAPHIC SCALES

1" = 250'-0

5/8" 1.0 MILES



C-1

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

DES. R. PONZETTO
DR. W. J. THOMAS
CHK. PONZETTO
SUBMITTED BY:
DESIGN DIR.
APPROVED: PWD OR OICC — DATE 3/14/83
SATISFACTORY TO: — DATE

NEW MONITORING WELLS FOR SANITARY LANDFILL

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	4080793

CONSTR. CONTR. NO. N62470-83-5827

SCALE: NOTED | SPEC. 05-83-5827 | SHEET OF

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
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J. I. WOOTEN
Director

Encl: (1) with
Attachments A-E

Writer: J. I. Wooten, NREAD 5003
Typist: J. Cross 22Mar85

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Sample containers provided by contract lab with preservative, if required. An ISCO sampler is used to take sample. Volume of water in well is determined. Three volumes are pumped out and then samples pulled and placed into containers. Samples are iced down immediately and shipped iced down to contract lab.

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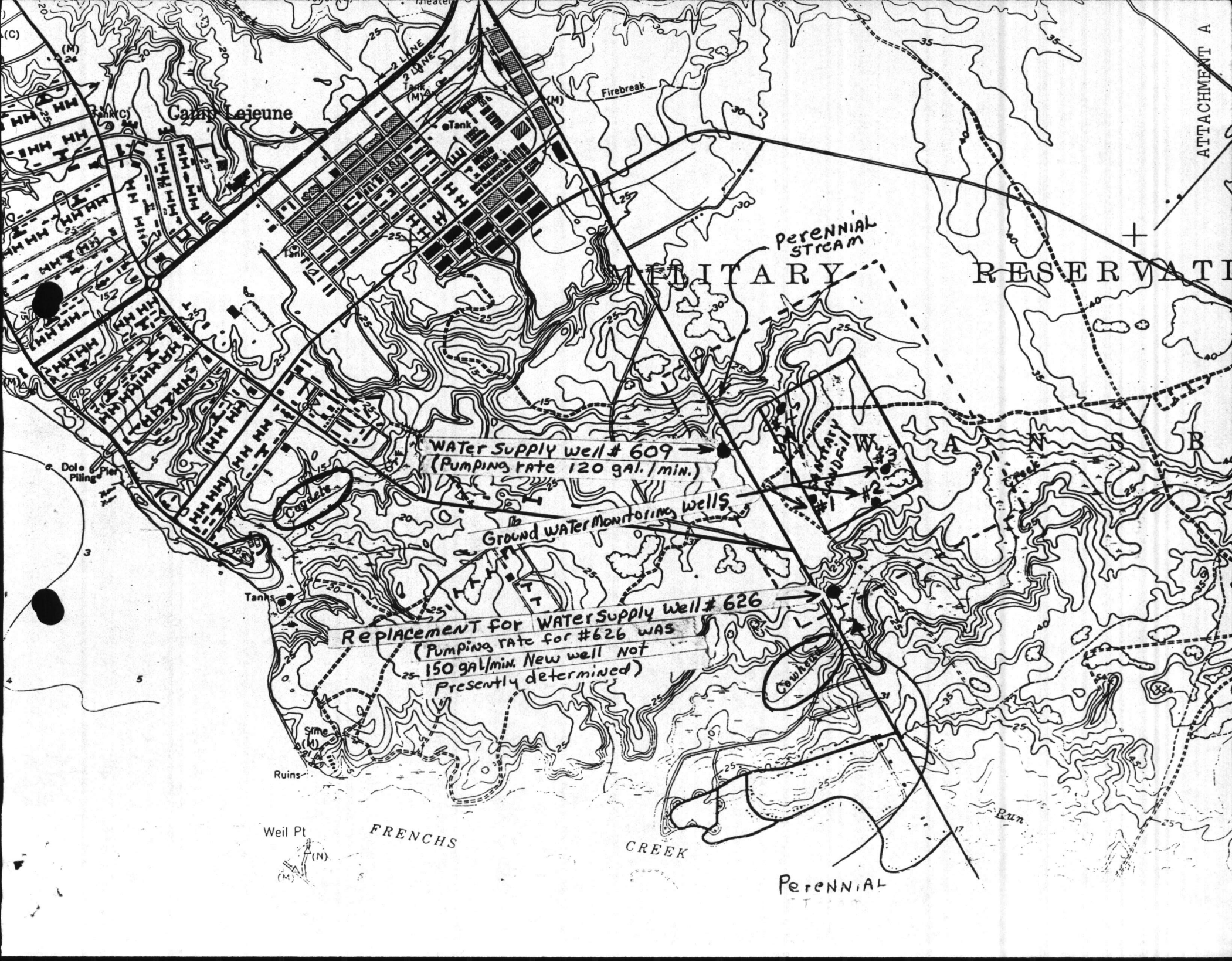
ATTACHMENT A
Camp Lejeune
Firebreak
Tank
Tank(C)
Tank(M)
2 LINE
Perennial stream
MILITARY RESERVATI
WATER SUPPLY WELL # 609
(Pumping rate 120 gal./min.)
MILITARY LANDFILL
#1
#2
#3
Ground WATER Monitoring wells
Replacement for WATER Supply Well # 626
(Pumping rate for #626 WAS 150 gal/min. New well not presently determined)
Dole Piling
Pier
Tanks
Ruins
Weil Pt
FRENCHS CREEK
Perennial
Run
Creek

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Sanitary Landfill, Camp Lejeune

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From Casting to Water	3 ft	(on 23 Aug 84)
Water Depth from Ground	0.8 ft	"

Well #3

Casting Height to Ground 27" =	2.3 ft	
From Casting to Water	9.5 ft	(on 23 Aug 84)
Water Depth from Ground	7.2 ft	"

Well #4

Casting Height to Ground 31.5" =	2.6 ft	
From Casting to Water	6 ft	(on 30 Oct 84)
Water Depth from Ground	3.4	"

ATTACHMENT (B)

GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

10 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40820

CUSTOMER: UNITED STATES MARINE CORPS.

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GUILFORD LABORATORIES, INC

J. A. Rayburn
Sign

J.A.RAYBURN

ATTACHMENT D

GUILFORD LABORATORIES, INC.
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

16 NOVEMBER 1984

REPORT OF ANALYSIS

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TOC(ppm)	22.0

GUILFORD LABORATORIES, INC.

J. A. Rayburn Jr

J.A. RAYBURN

ATTACHMENT E

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

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.

Sincerely,

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

GDB:plg/1546A

Enclosure

cc: Terry Dover
Julian Foscue
Field Staff

Sanitary Landfill, Camp Lejeune N.C.

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, asbestos 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 attached map~~ See Attachment (a)

6. Approximate depth to groundwater at the landfill.

McDowell-Jones P.A. determined watertable to be 22.0 ft. Attachment (b) shows findings when sampled. Exceeded

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 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 applicable).

Sample containers provided by contract lab with preservative if required. An ISCO sampler is used to take sample. Volume of water in well is determined. Three volumes are pumped out and then samples pulled and placed into containers. Samples are iced down immediately and shipped iced down to contract lab.

Attach sheet if necessary.

9. If there are existing wells, are samples collected and analyzed? If so, by whom (i.e., collector and laboratory)? 1984 samples were handled as follows:

Collector: Quality Control Laboratory NREAD Marine Corps Base Camp Lejeune

Laboratory: Guilford Laboratories PO Box 9235 Plaza Station, Greensboro NC.

1475A (See results in Attachment (d) and (e) (subject to change)