GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

(919) 828-3360

709 West Johnson Street

Raleigh, North Carolina 27603

ANALYTICAL LABORATORY

Environment Analysis Construction Materials Identification of Unknowns

February 6, 1983 83-6113

Agriculture

Fuels Textiles Chemicals

Hazardous Waste

Commanding General Marine Corps Base

Camp Lejeune, N.C. 28542

Attention: AC/S Facilities

Subject: Analyses of Samples Received 1/31/83

Sample Identification: Purchase Order No. M67001-82-M-5084

Juli	ubie identification.	ruichase	oruer	NO. 110/001-02-11
1.	312 A *		7.	318 A & 318 B
2.	313 A & 313 B		8.	319 A & 319 B
3.	314 A & 314 B		9.	320 A & 320 B
4.	315 A & 315 B		10.	321 A & 321 B
5.	316 A & 316 B		11.	322 A & 322 B
6.	317 A & 317 B			

^{* 312} B broken in Transit

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
1	2	8	15	22	47
2	4	14	41	69	128
3	3	15	44	54	116
4	4	15	40	48	107
5	4	14	33	46	97
6	36	14	4	<1	54
7	31	13	3	<1	47
8	37	14	5	<1	56
9	38	16	4	<1	58
10	34	13	3	<1	50
11	2	6	8	8	24

NOTE: All results reported in micrograms per liter.

Analysis completed 2-4-83.

Bruce A. Babson

Bruce a. Balison

Chemist

CONSULTATION

Metallurgical Services

Pollution Abatement

Process Development

Methods Development

Special Investigation

Quality Control

Pesticides

RCRA

0000005442



BAB/ab

Customer #92400

cc: Elizabeth Betz

1/350

Doring Sins

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 10, 1982

CLW 000005443

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

Re: Groundwater monitoring at Camp Lejeune Landfill - Permit #67-03

Dear Sir:

As noted on the approved operational plan of July 20, 1982, four groundwater monitoring wells were to be installed around the site. Condition number 9 of the permit stated that Camp Lejeune would be responsible for sampling and analyses of the wells. I will outline the parameters to be analyzed and sampling procedures below:

The following parameters are to be sampled and analyzed at least annually:

Arsenic Nitrate Color Lead Barium Fluoride Iron Mercury Cadmium Selenium Chloride Manganese Silver Sulfate Chromium Copper

pH Total Organic Carbon
Total Dissolved Solids Total Organic Halogen
Zinc Water Elevation
Conductivity

Prior to collecting the samples, water elevations should be measured and recorded. The well should then be purged at least 2-3 volumes of the well casing. This is to assure fresh groundwater is being collected. Samples may then be drawn using a PVC bailer and collected in clean plastic containers. Water collected for the total organic halogen analysis should be collected in glass containers which have been properly cleaned.

Between wells the bailer should be thoroughly rinsed in tap water. An even better method of preventing cross-contamination is to use a separate bailer for each well which can then be cleaned back in the lab. This option is at your discretion.

Samples should be iced and transported to the lab for analysis. A chain of custody is not required, unless you feel it is needed for your records.

Samples should be collected and analyzed during the month of April each year and a copy of the results submitted to me as they become available.

