

GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

September 16, 1983
83-8370

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

Attention: Commanding General

Subject: Analyses of Samples Received 8/29/83

Purchase Order: M93170-3136-1481

CLW

0000006370

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
403*	1	3	4	3	11
404*	2	6	8	6	22
405*	1	2	3	5	11
406*	1	3	4	4	12
407*	1	2	3	4	10
408	2	3	3	<1	8
409	1	<1	<1	<1	1
410	3	3	4	<1	10
411	3	3	3	<1	9
412	2	3	3	<1	8
413	4	9	22	27	62
414	5	15	42	63	125
415	5	15	44	69	133
416	4	12	26	51	93
417	4	14	41	70	129
418	12	7	3	<1	22
419	15	9	5	<1	29
420	16	9	5	<1	30
421	16	9	5	<1	30
422	17	10	5	<1	32



RESULTS
 (Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
423	29	9	3	<1	41
424	33	11	3	<1	47
425	33	11	3	<1	47
426	40	13	4	<1	57
427	36	12	4	<1	52
428	16	9	5	<1	30
429	17	9	5	<1	31
430	15	8	4	<1	27
431	16	9	5	<1	30
432	29	15	8	<1	52
433	12	2	<1	<1	14
435	40	5	2	<1	47
436	41	10	2	<1	53
437	20	<1	<1	<1	20
438**	21	≤15	2	<1	≤38
439**	27	≤15	2	<1	≤44
440**	22	≤15	2	<1	≤39
441**	22	≤15	2	<1	≤39
442**	23	≤15	3	<1	≤41

* All samples from this site exhibit contamination from Tetrachloroethylene.

** All samples from this site exhibit contamination from both Trichloroethylene and Tetrachloroethylene. The reported values for Bromodichloromethane and Total Trihalomethane are probable upper limits on the concentrations for these parameters.

NOTE: All results reported in micrograms per liter.
 Analysis completed 9/8/83.

Bruce A. Babson

Bruce A. Babson
 Laboratory Supervisor

CLW

BAB/at
 cc: Elizabeth Betz

0000006371

GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

September 16, 1983
83-8370

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Commanding General

Subject: Analyses of Samples Received 8/29/83

Purchase Order: M93170-3136-1481

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

CLW

000006372

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
403*	1	3	4	3	11
404*	2	6	8	6	22
405*	1	2	3	5	11
406*	1	3	4	4	12
407*	1	2	3	4	10
408	2	3	3	<1	8
409	1	<1	<1	<1	1
410	3	3	4	<1	10
411	3	3	3	<1	9
412	2	3	3	<1	8
413	4	9	22	27	62
414	5	15	42	63	125
415	5	15	44	69	133
416	4	12	26	51	93
417	4	14	41	70	129
418	12	7	3	<1	22
419	15	9	5	<1	29
420	16	9	5	<1	30
421	16	9	5	<1	30
422	17	10	5	<1	32



RESULTS
 (Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
423	29	9	3	<1	41
424	33	11	3	<1	47
425	33	11	3	<1	47
426	40	13	4	<1	57
427	36	12	4	<1	52
428	16	9	5	<1	30
429	17	9	5	<1	31
430	15	8	4	<1	27
431	16	9	5	<1	30
432	29	15	8	<1	52
433	12	2	<1	<1	14
435	40	5	2	<1	47
436	41	10	2	<1	53
437	20	<1	<1	<1	20
438**	21	<15	2	<1	<38
439**	27	<15	2	<1	<44
440**	22	<15	2	<1	<39
441**	22	<15	2	<1	<39
442**	23	<15	3	<1	<41

* All samples from this site exhibit contamination from Tetrachloroethylene.

** All samples from this site exhibit contamination from both Trichloroethylene and Tetrachloroethylene. The reported values for Bromodichloromethane and Total Trihalomethane are probable upper limits on the concentrations for these parameters.

NOTE: All results reported in micrograms per liter.
 Analysis completed 9/8/83.

Bruce A. Babson

Bruce A. Babson
 Laboratory Supervisor

BAB/at
 cc: Elizabeth Betz

CLW

0000006373

THM Info

All Samples Listed Below were Collected on 25 August 1983

#423-427 RR System Collected from 1441-1457
#428-432 CHB System Collected from 1340-1405
#433-437 OB System Collected from 1106-1140
434 was not collected

All Samples Listed Below were Collected on 26 August 1983

#403-407 TT System Collected from 0836-0900
#408-412 MP System Collected from 0909-0931
#413-417 NR System Collected From 1254-1330
#418-422 HB System Collected from 1405-1437
#438-442 HPPSystem Collected from 1450-1520

Samples Shipped to: Grainger Laboratories
709 W. Johnson Street
Raleigh, NC 27603

Point of Contact on Sampling: Elizabeth A. Betz
Quality Control Lab, NREAD
Facilities, MBB
Camp Lejeune, NC 28542

CLW

0000006374

TRICHALOMETHANE SAMPLING

MONTH:

YEAR:

<u>SAMPLE #</u>	<u>SAMPLE LOCATION</u>	<u>TIME</u>
WTP: Tarawa Terrace Sampler: H: L Date: 8/26/83		
403	Bldg STT-39A, Water Plant @ 1st Pump	0844
404	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	0836
405	Bldg TT-48, TT Elem School II, Men's Head across Office	0900
406	Bldg TT-2453, TT Exchange gas Station's Ladies Room	0847
407	Bldg TT-35, Sewage Plant's Office Sink	0854
WTP: _____ Sampler: _____ Date: _____		
_____ Bldg E-23, Sewage Lift Station, Knox Trailer Park		
WTP: Montford Point Sampler: H: L Date: 8/26/83		
408	Bldg M-178, Water Plant @ Sink faucet	0917
409	Bldg M-625, Steam Plant, Bathroom Sink	0909
410	Bldg M-128, Branch Clinic, Men's Head	0931
411	Bldg M-136, Sewage Plant Sink	0926
412	Bldg M-231, BOQ, 1st floor Men's Head	0921
WTP: New River Sampler: L Date: 8-26-83		
413	Bldg AS-110, Water Plant @ Pump	1303
414	Bldg E-520, Career Planner, 2nd floor Men's Room	1254
415	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1317
416	Bldg 710, Officer's Club Gally Sink	1340
417	Bldg 2800, Boat Marina Men's Room	1330
WTP: Holcomb Blvd Sampler: L Date: 8-26-83		
418	Bldg 670, Water Plant @ Pump	1412
419	Bldg 4022, Fire Station, Bathroom Sink	1405
420	Bldg 1915, Golf Course, Men's Locker Room	1429
421	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1421
422	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	1437

CLW

0000006375

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE## SAMPLE LOCATION
WTP: Rifle Range Sampler: L+H Date: 6-26-83 TIME

423	Bldg RR-85, Water Plant @ Finish Tap	1454
424	Bldg RR-6, Fire House Sink	1457
425	Bldg RR-10, Snack Bar Sink	1451
426	Bldg RR-200, Across from Target Shed	1446
427	Bldg RR-92, Sewage Plant Sink	1447

WTP: Courthouse Bay Sampler: L+H Date: 8-25-83

428	Bldg BB-190, Water Plant @ Faucet	1340
429	Bldg BB-7, Mess Hall Sink	1351
430	Bldg BB-54, Service Club	1405
431	Bldg SBB-204, Sewage Plant Sink	1357
432	Bldg BB-46, Marina Bathroom Sink	1346

WTP: Onslow Beach Sampler: L+H Date: 9-25-83

433	Bldg BA-138, Water Plant	1140
434	Bldg BA-103, Mess Hall	
435	Campsite #2, Spigot 10(Mainland)	1135
436	Campsite #1, Spigot 2(Beachside)	1106
437	Bldg SBA-142, Spigot at bottom of Pier	1121

WTP: Hadnot Point Sampler: L Date: 8-26-83

438	Bldg20, Water Plant @ Pump	1459
439	Bldg NH-1, Emergency Room Sink	1430
440	Bldg 1202, Men's Room Sink	1509
441	Bldg 65, Quality Control Lab, Room 220 Sink	1520
442	Bldg FC-530, Laundry Room Sink, 1st floor	1515

CLW

0000006376