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State of North Carolina
Department of Natural Resources and Community Development
Wilmington Regional Office

James G. Martin, Governor

S. Thomas Rhodes, Secretary

DIVISION OF ENVIRONMENTAL MANAGEMENT

June 21, 1985

Colonel R.A. Tiebout
Assistant Chief of Staff, Facilities
United States Marine Corps
Marine Corps Base
Camp Lejeune, NC 28542-5001

SUBJECT: Transmittal of Analytical Results
Three Community Water Supply Wells
Tarawa Terrace I
Camp Lejeune MCB
Onslow County

Dear Colonel Tiebout:

Attached please find copies of the analytical results completed on samples that I collected on 9 April 1985 from wells TT-25, TT-26, and new TT.

Your staff's cooperation in helping me collect these samples was greatly appreciated.

Sincerely,

Rick Shiver
Regional Hydrologist

RS/sbm

cc: Julien Wooten
Mike Bell
Perry Nelson

Attachments

DE. Machine work 3 weeks

CLW

0000001244

RECEIVED

PRO-1247

COUNTY WILSON

DEPARTMENT OF NATURAL RESOURCES
& COMMUNITY DEVELOPMENT
DEM

LAB NUMBER 6-192

QUAD NO. X 24 B SERIAL NO. JUN 6 1985

RECEIVED

DATE REC'D 4 11 85

REPORT TO: (circle one)

WILMINGTON REGIONAL OFFICE GROUNDWATER FIELD/LAB FORM
DEM

REC'D BY SD

JUN 4 1985

DATA ENTRY BY Am CK

ARO, WSRO, MRO, FRO, WARO,
NITRO, RRO, Ahooskie FO,
OTHER

DATA REPORTED 6-3-85

PURPOSE: (circle one) baseline, pollution monitor, other

GROUND WATER SECTION

DATE COLLECTED 04 09 85 Time 10:15 By SILVER Location or RALEIGH #126

Description of sampling point ... Sampled interval ...

Remarks ...
(pumping time, air temp, etc.)

Field Analysis By: SILVER Lat. 341423 N Long. 772152 W

pH 7.1 Spec. Cond. 110 Temp. 15 °C NO Organic Appearance CLEAR Taste ...

Lab Analysis

✓ Alkalinity to pH 4.5	P00410	180 mg/l	✓ Ag-Silver (D)	P01075	< 50 ug/l	ROD	P00310	mg/l
Alkalinity, Hydroxide	P71830	< 1 mg/l	✓ Al-Aluminum (D)	P01106	100 ug/l	COD	P00341	mg/l
✓ Carbonate	P00445	< 1 mg/l	✓ Ba-Barium (D)	P02005	< 1000 ug/l	Coliform (Fecal MF)	P31616	/100ml
✓ Bicarbonate	P00440	220 mg/l	✓ Ca-Calcium (D)	P00915	80 mg/l	Coliform (total MF)	P31505	/100ml
✓ pH value (when analyzed)	P00400	8.2 units	✓ Cd-Cadmium (D)	P01025	< 20 ug/l	✓ TOC	P00680	< 5 mg/l
✓ Arsenic (D)	P01000	< 10 ug/l	✓ Cr-Chromium (D)	P01030	< 50 ug/l	Turbidity	P82079	NTU
Carbon dioxide	P00405	mg/l	✓ Cu-Copper (D)	P01040	< 20 ug/l	✓ Ammonia (as Nitrogen) (D)	P00612	.02 mg/l
✓ Chloride (D)	P00940	7 mg/l	✓ Fe-Iron (D)	P01046	1200 ug/l	✓ Kjeldahl (as Nitrogen) (D)	P00623	< 0.1 mg/l
✓ Color (True)	P00080	24 units	✓ Hg-Mercury	P71900	< 0.2 ug/l	✓ Nitrate + Nitrite (as Nitrogen) (D)	P00631	< 0.0 mg/l
Cyanide	P00720	mg/l	Li-Lithium (D)	P01130	< 50 ug/l	✓ Phosphorus, total as P (D)	P00666	.27 mg/l
✓ Dissolved solids (D)	P70301	230 mg/l	✓ Mg-Magnesium (D)	P00925	2.0 mg/l	Dissolved Solids - cond. meter	P70304	mg/l
✓ Fluoride (D)	P00951	0.2 mg/l	✓ Mn-Manganese (D)	P01056	< 50 ug/l	Other Analyses:		
✓ Hardness (as CaCO ₃) (D)	P00900	130 mg/l	✓ Na-Sodium (D)	P00929	5.4 mg/l	✓		
✓ Hardness (non-carbonate) (D)	P00902	10 mg/l	✓ Pb-Lead (D)	P01049	< 100 ug/l	✓		
MBAS (D)	P38260	mg/l	✓ Zn-Zinc (D)	P01090	< 20 ug/l	✓		
Phenol (D)	P34466	.5 ug/l	✓ K-Potassium (D)	P00935	1.6 mg/l	✓		
✓ Silica (D)	P00955	6 mg/l	✓		55.0 ug/l	✓		
✓ Sulfate (D)	P00946	5 mg/l				✓		
Specific Cond.	P00094	420 UMHOS/cm				✓		

D = Dissolved Analysis - submit filtered sample
White copy - Headquarters Pink copy - Region Yellow copy - Lab

Handwritten notes and signatures at bottom right.

Reported by MLU

Date 5-29-85

Checked by AD

ORGANIC ANALYSIS

Entered by _____

Supervisor REK

Checked by _____

Lab No.	Analytical Results
	1 WATER
G-182	<p>THE FOLLOWING COMPOUNDS WERE IDENTIFIED BY MATCHING TO LIBRARY MASS SPECTRA. THEY WERE NOT MATCHED TO STANDARDS. CONCENTRATIONS () WERE ESTIMATED AS A RATIO TO A KNOWN INTERNAL STANDARD.</p> <p>BY GC/MS/PT:</p> <p>DICHLORO ETHERE (1.4 $\mu\text{g}/\text{l}$) TRICHLORO ETHERE (78 $\mu\text{g}/\text{l}$) TETRACHLORO ETHERE (638 $\mu\text{g}/\text{l}$) ONE UNIDENTIFIED PEAK DETECTED BY GC/MS/PT-</p>
	<p style="text-align: right;">CLW</p> <p style="text-align: right;">000000 1246</p>

GC/MS/DS used

COUNTY Wake
 QUAD NO. 4 SERIAL NO. 111111

REPORT TO: (circle one)
 ARO, WSRO, MRO, FRO, WARD,
 WIRO, BRO, Ahooskie FO,
 OTHER

N. CAROLINA DEPARTMENT OF ENVIRONMENTAL RESOURCES
RECEIVED
 GROUNDWATER FIELD/LAB FORM
 JUN 3 1985

RECEIVED
 MAY 31 1985

LAB NUMBER 6-174
 DATE REC'D 4-10-85
 REC'D BY JD
 DATA ENTRY BY Bruce
 DATA REPORTED 5-29-85

WILMINGTON REGIONAL OFFICE
 DEM

GROUND WATER SECTION
 RALEIGH, N. C.

PURPOSE: (circle one) baseline, pollution monitor, other

DATE COLLECTED 4-10-85 Time 11:00 By JD Location of site YORKTOWN AQUICLUD

Description of sampling point WELL 111111 Sampled interval 10-25; 1-12

Remarks (pumping time, air temp, etc.)

Field Analysis By: JD Lat. 344412 N Long. 771701 W

pH 7.4 Spec. Cond. 17 Temp. 17 °C OK Appearance clear Taste ok

Lab Analysis

✓ Alkalinity to pH 4.5	P00410	180 mg/l
Alkalinity, Hydroxide	P71930	1 mg/l
✓ Carbonate	P00445	< 1 mg/l
✓ Bicarbonate	P00440	22 mg/l
✓ pH value (when analyzed)	P00400	7.4 units
✓ Arsenic (D)	P01000	< 10 ug/l
Carbon dioxide	P00405	mg/l
✓ Chloride (D)	P00940	15 mg/l
✓ Color (True)	P00080	31 units
Cyanide	P00720	mg/l
✓ Dissolved solids (D)	P70301	250 mg/l
✓ Fluoride (D)	P00951	0.3 mg/l
✓ Hardness (as CaCO ₃) (D)	P00900	190 mg/l
✓ Hardness (non-carbonate) (D)	P00902	10 mg/l
MBAS (D)	P38260	mg/l
✓ Phenol (D)	P34466	< 5 ug/l
✓ Silver (D)	F00955	7 mg/l
✓ Sulfate (D)	P00946	17 mg/l
✓ Specific Cond.	P00094	450 µS/cm

✓ Ag-Silver (D)	P01075	< 50 µg/l
✓ Al-Aluminum (D)	P01106	< 100 µg/l
✓ Ba-Barium (D)	P01005	< 100 µg/l
✓ Ca-Calcium (D)	P00915	77 mg/l
✓ Cd-Cadmium (D)	P01025	< 20 µg/l
✓ Cr-Chromium (D)	P01030	< 50 µg/l
✓ Cu-Copper (D)	P01040	< 20 µg/l
✓ Fe-Iron (D)	P01046	100 µg/l
✓ Hg-Mercury	P71900	< 0.2 µg/l
✓ Li-Lithium (D)	P01130	< 50 µg/l
✓ Mg-Magnesium (D)	P00925	2.6 mg/l
✓ Mn-Manganese (D)	P01056	< 50 µg/l
✓ Na-Sodium (D)	P00929	12 mg/l
✓ Pb-Lead (D)	P01049	< 100 µg/l
✓ Zn-Zinc (D)	P01090	350 µg/l
✓ K-Potassium (D)	P00935	4.3 mg/l
✓ Se-Selenium		< 5.0 µg/l

BOD	P00310	mg/l
COD	P00341	mg/l
Coliform (Fecal MP)	P31616	/100ml
Coliform (total MP)	P31505	/100ml
✓ TOC	P00680	< 5 mg/l
Turbidity	P82079	NTU
✓ Ammonia (as Nitrogen) (D)	P00612	0.04 mg/l
✓ Kjeldahl (as Nitrogen) (D)	P00623	0.1 mg/l
✓ Nitrate + Nitrite (as Nitrogen) (D)	P00631	0.01 mg/l
✓ Phosphorus, total as P (D)	P00666	0.22 mg/l
Dissolved Solids - cond. meter	P70304	mg/l

Other Analyses:
 ✓ Nitrate < 0.01 mg/l
 ✓ Volatile Organic Compounds
 ✓ VOA
 ✓ VOA

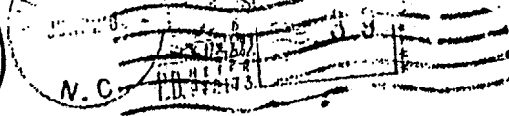
See attached Organics Analysis Worksheet
 Yellow copy - Lab

D = Dissolved Analysis - submit filtered sample
 White copy - Headquarters Pink copy - Region

1350

North Carolina Department of Natural
Resources & Community Development

7225 Wrightsville Ave. Wilmington, North Carolina 28403-3696



COLONEL R.A. TIEBOUT
ASSISTANT CHIEF OF STAFF, FACILITIES
UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE NC 28542-5001

CLW

0000001250

ROUTING SLIP

22 JUL 1985

	ACTION	INFO	INITIAL
BMO		✓	WR
ABMO		✓	mu
ADMIN			
F&A			
MAINT NCO			
M&R			
OPNS			
PROP			
UMACS			
UTIL		✓	65J
SECRETARY			

COMMENTS:

CLW

0000001251