

11330
NREAD
22 Mar 1985

From: Director, Natural Resources and Environmental Affairs
Division, Marine Corps Base, Camp Lejeune
To: Base Maintenance Officer (Attn: Utilities Director), Marine
Corps Base, Camp Lejeune

Subj: WATER SAMPLING QUALITY CONTROL

Encl: (1) Wastewater Operator Sampling Summary for 1-31 Jan 1985
(2) " " " " " " 1-28 Feb 1985
(3) Water Treatment Bacteriological Sampling Summary for 1-31
Jan 1985
(4) Water Treatment Bacteriological Sampling Summary for 1-28
Feb 1985

1. Enclosures (1) through (4) are forwarded for your information.
Ms. Elizabeth Betz, Supervisory Chemist, is point of contact in
this matter.

J. I. WOOTEN

Blind copy to:
→ SupvChem

Writer: E. Betz, NREAD 5003
Typist: J. Cross 22Mar85

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1942
1943

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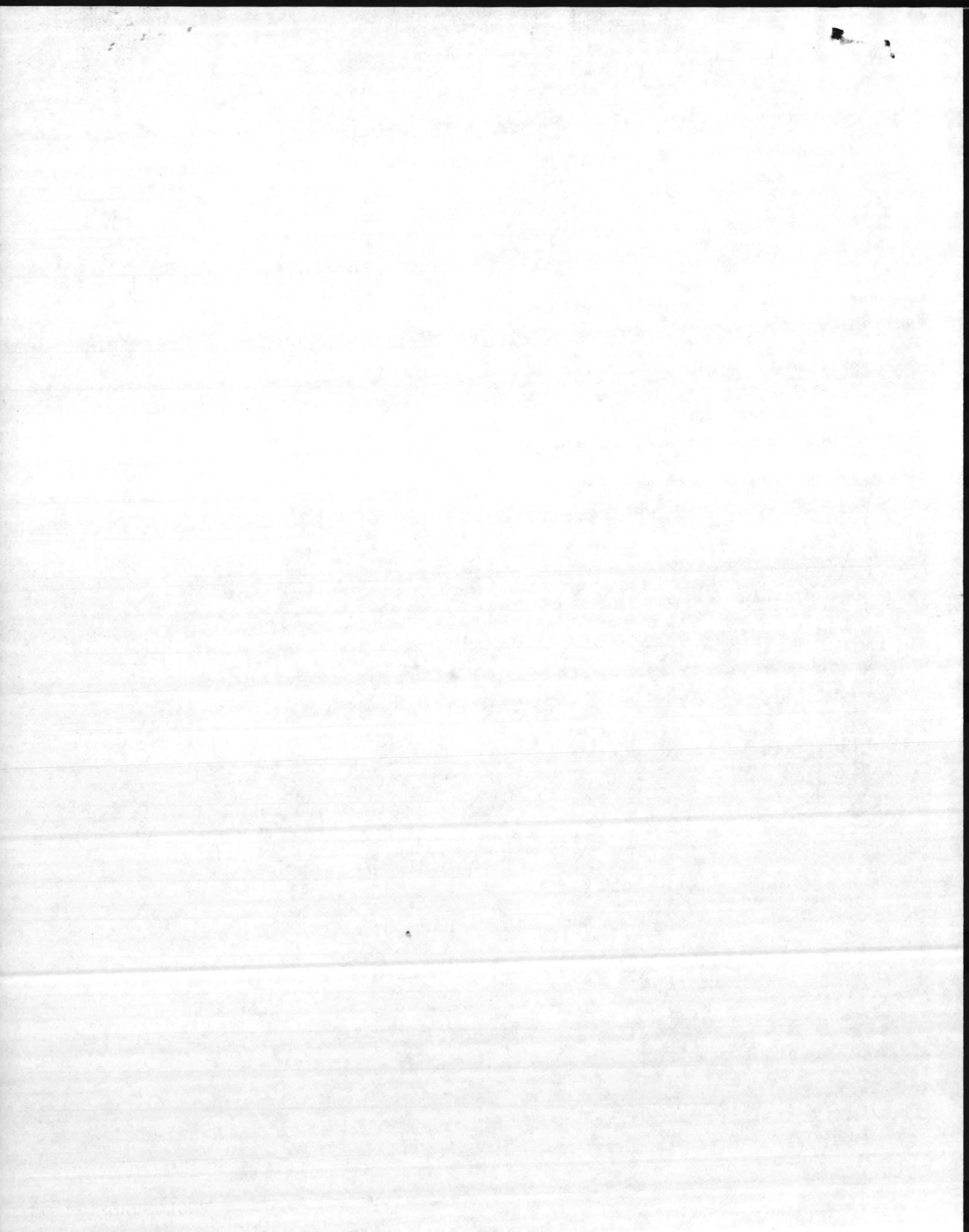
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WASTEWATER OPERATOR SAMPLING SUMMARY

1-31 JANUARY 1985

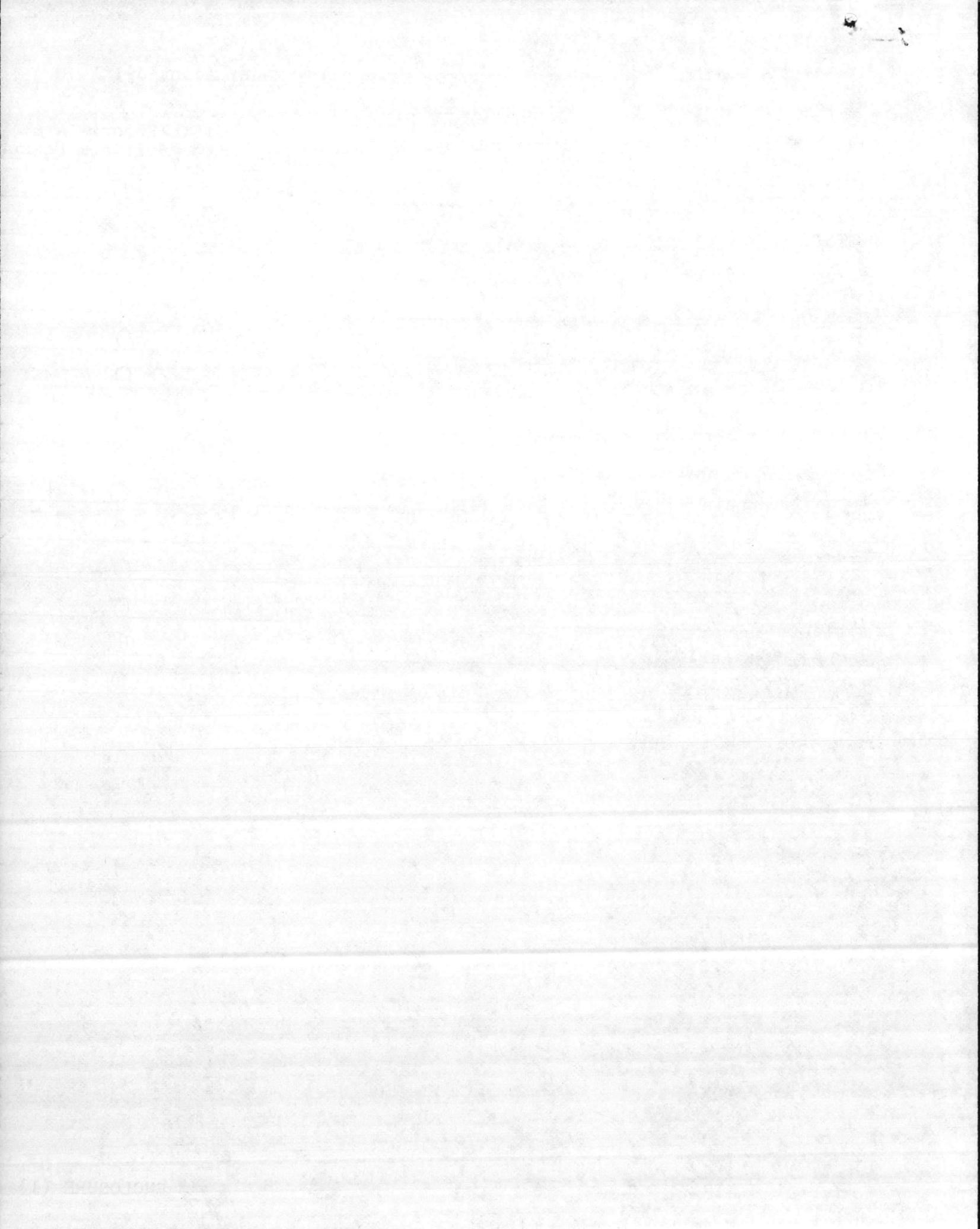
	Total # of Samples		# in Error		Comments
	Composite	Coliform	Composite	Coliform	
ALDRIDGE, Barry T.	45	4	0	0	
AMBROSE, John H.	15	6	0	0	
ANTINORI, David L.	0	2	0	0	
BROWN, Clennie L.	0	4	0	0	
CONNER, Joe	0	0	0	0	
CARLYLE, Billy B.	21	4	0	0	
COLLINS, Edward G.	0	0	0	0	
CREWS, Stephen V.	15	3	0	0	
DARDEN, Glenn L.	39	4	0	0	
DAVILA, Gabriel	2	7	0	0	
DAVIS, Mack D., Jr.	0	0	0	0	
DELGADO-NIEVES, Dolores	19	0	0	0	
FARLAND, Melvin S.	41	4	0	0	
FARROW, McArthur	29	3	0	0	
FUTRELL, Norvin J.	18	2	0	0	
FUTREAL, Rupert	2	12	0	0	
HALL, Leitha W.	0	3	0	0	
HILL, Stanley E.	0	3	0	0	
HUDGINS, Alton O.	33	5	0	0	
KELLUM, Kenneth D.	4	1	0	0	
KENNEDY, Tommie H.	23	2	0	0	
MORRIS, Rebecca E.	25	0	0	0	
PACK, Donald L.	15	0	0	0	
PATE, James C.	24	0	0	0	
PERRY, James W.	19	2	0	0	



WASTEWATER OPERATOR SAMPLING SUMMARY (cont'd)

1-31 JANUARY 1985

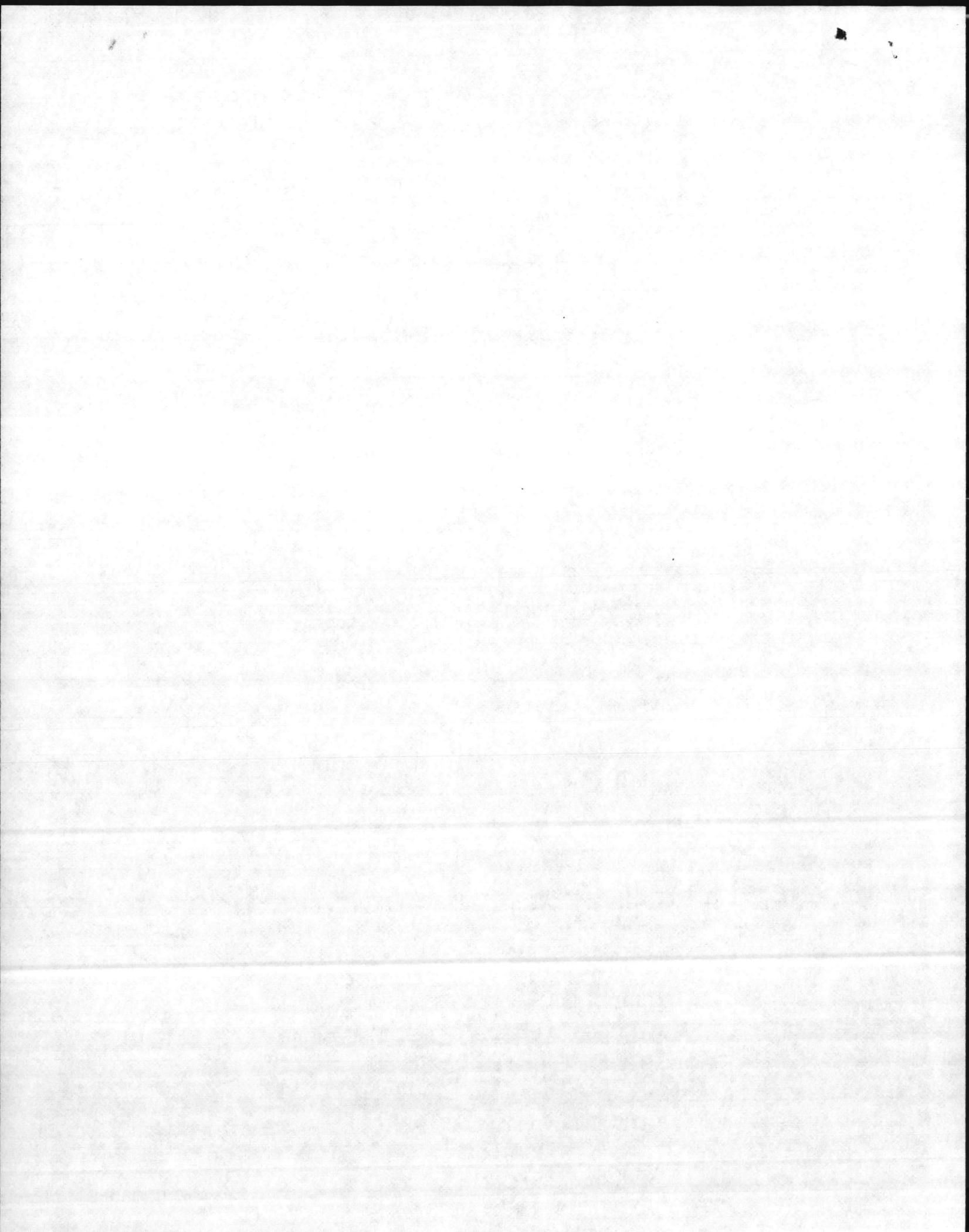
	<u>Total # of Samples</u> <u>Composite</u>	<u>Coliform</u>	<u># in Error</u> <u>Composite</u>	<u>Coliform</u> <u>Commer</u>
RHODES, Randal B.	24	0	0	0
ROLLINGER, David L.	41	6	0	0
SAULTER, Albert F., Jr.	19	0	0	0
SCHMIDT, Carroll V.	24	2	0	0
SNODGRASS, Anthony P.	20	5	0	0
SNODGRASS, Pamela C.	15	0	0	0
STEVENSON, David M.	7	0	0	0
TAYLOR, Herman B.	24	0	0	0
TAYLOR, Johnnie P.	25	7	0	0
THOMPSON, James L.	6	0	0	0
TREDWELL, David H.	36	4	0	0
WILLIAMS, Victor W.	27	5	0	0
WOOLDRIDGE, Earl C.	42	0	0	0
YOPP, Everett D.	0	6	0	0



WASTEWATER OPERATOR SAMPLING SUMMARY

1-28 FEBRUARY 1985

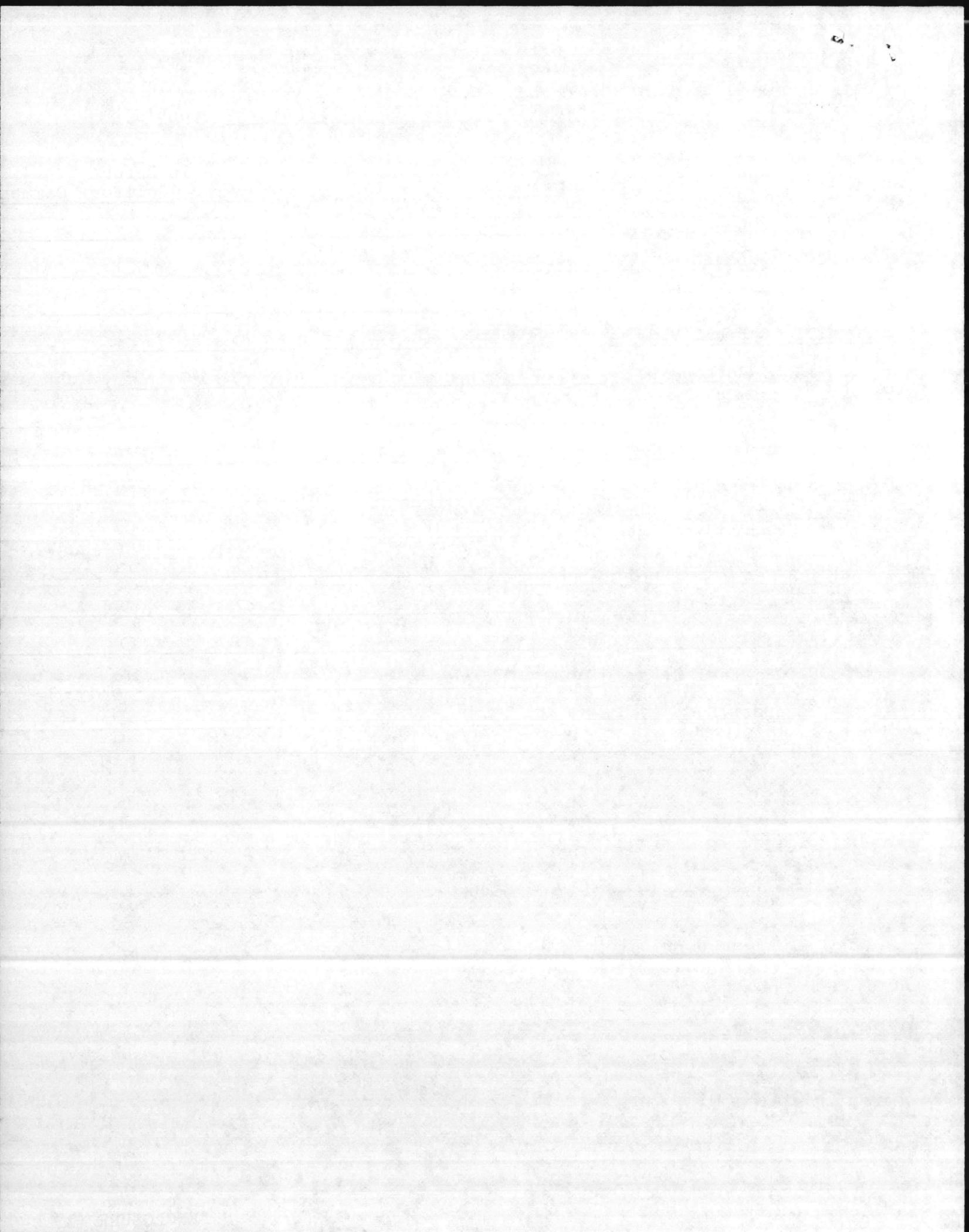
	Total # of Samples		# in Error		Comments
	Composite	Coliform	Composite	Coliform	
ALDRIDGE, Barry T.	36	4	0	0	
AMBROSE, John H.	21	4	0	0	
ANTINORI, David L.	0	3	0	0	
BROWN, Clennie L.	0	3	0	0	
CONNER, Joe	0	0	0	0	
CARLYLE, Billy B.	17	0	0	0	
COLLINS, Edward G.	0	0	0	0	
CREWS, Stephen V.	7	2	0	0	
DARDEN, Glenn L.	36	4	0	0	
DAVILA, Gabriel	0	6	0	0	
DAVIS, Mack D., Jr.	0	0	0	0	
DELGADO-NIEVES, Dolores	17	0	0	0	
FARLAND, Melvin S.	15	4	0	0	
FARROW, McArthur	31	4	0	0	
FUTRELL, Norvin J.	6	0 #	0	0	
FUTREAL, Rupert	6	0 11	0	0	
HALL, Leitha W.	0	3	0	0	
HILL, Stanley E.	0	3	0	0	
HUDGINS, Alton O.	33	4	0	0	
KELLUM, Kenneth D.	11	0	0	0	
KENNEDY, Tommie H.	20	1	0	0	
NORRIS, Rebecca E.	18	0	0	0	
PACK, Donald L.	15	0	0	0	
PATE, James C.	15	0	0	0	
PERRY, James W.	24	0	0	0	



WASTEWATER OPERATOR SAMPLING SUMMARY (cont'd)

1-28 February 1985

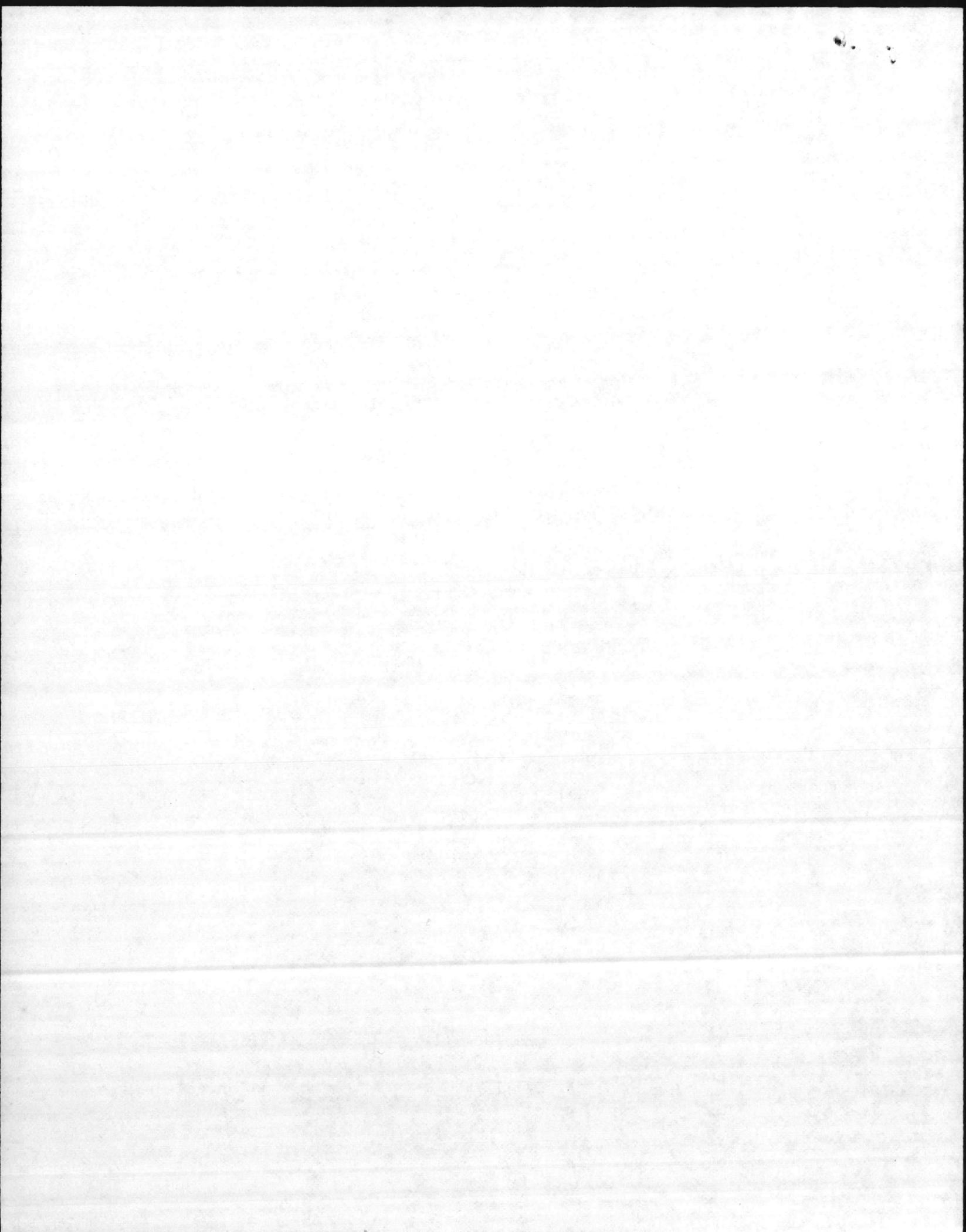
	Total # of Samples		# in Error		Comments
	Composite	Coliform	Composite	Coliform	
RHODES, Randal B.	17	0	0	0	
ROLLINGER, David L.	33	4	0	0	
SAULTER, Albert F., Jr.	14	0	0	0	
SCHMIDT, Carroll V.	33	4	0	0	
SNODGRASS, Anthony P.	21	5	0	2	CHLORIN
SNODGRASS, Pamela C.	15	0	0	0	
STEVENSON, David M.	5	0	0	0	
TAYLOR, Herman B.	15	0	0	0	
TAYLOR, Johnnie P.	24	4	0	0	
THOMPSON, James L.	0	6	0	0	
TREDWELL, David H.	33	4	0	0	
WILLIAMS, Victor W.	21	4	0	0	
WOOLDRIDGE, Earl C.	33	0	0	0	
YOPP, Everett D.	2	6	0	0	



WATER TREATMENT BACTERIOLOGICAL SAMPLING SUMMARY

1-31 January 1985

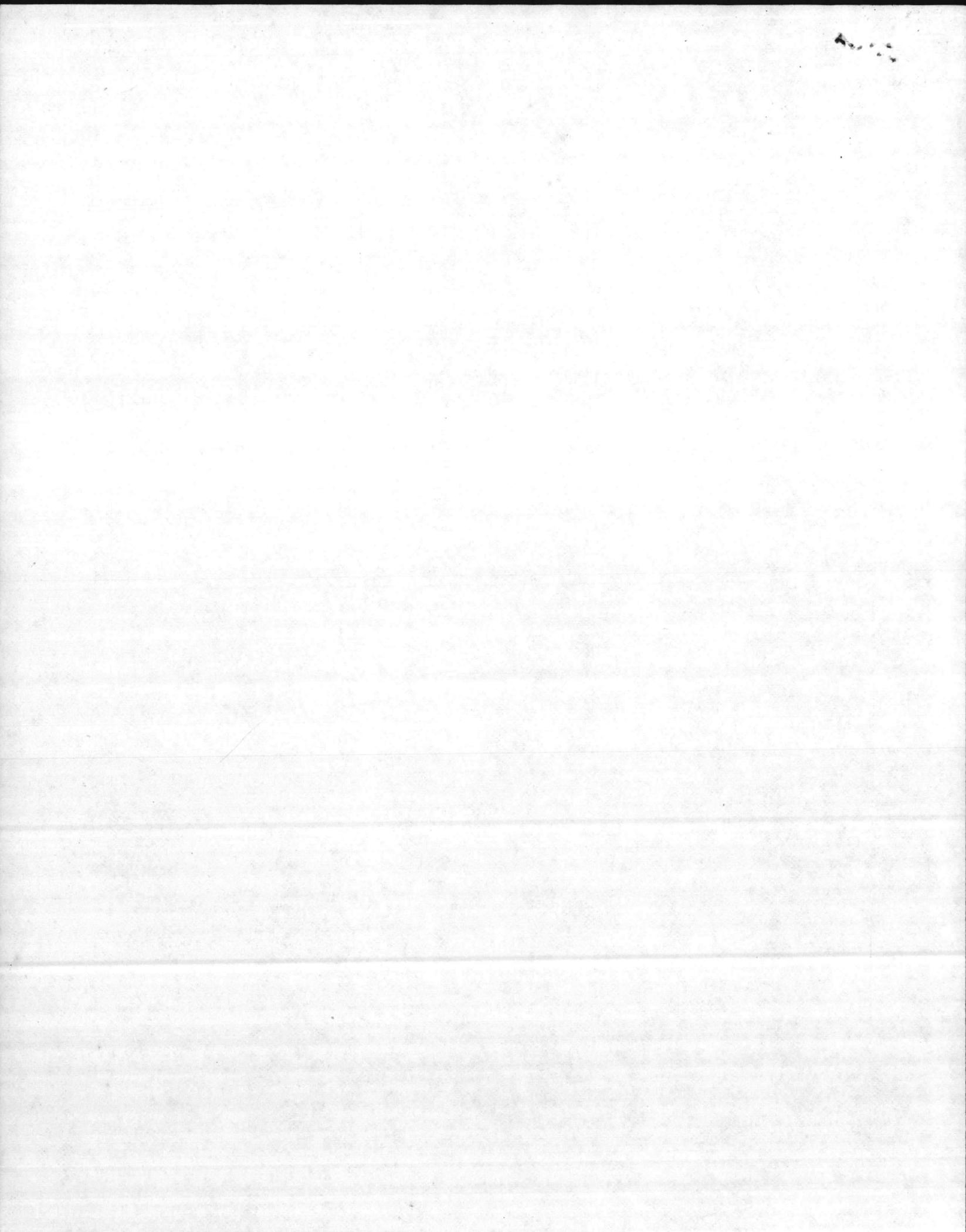
<u>Last Name</u>	<u># of Samples</u>	<u># of Errors</u>			<u>Others</u>	<u>Comments</u>
		<u>Missing Bldg #</u>	<u>Missing Time & Cl₂</u>	<u>Wrong Bldg #</u>		
Duncan	27	0	0	0		
Dunlap	31	0	0	0		
Herring	35	0	0	0		
James	6	0	0	0		
Milton	6	0	0	0		
Morton	19	0	0	0		
Odum	9	0	0	0		
Petersen	32	0	0	0		
Ward	16	0	0	0		
Wooten	9	0	0	0		



WATER TREATMENT BACTERIOLOGICAL SAMPLING SUMMARY

1-28 February 1985

<u>St Name</u>	<u># of Samples</u>	<u>Missing Bldg #</u>	<u># of Errors</u>		<u>Others</u>	<u>Comments</u>
			<u>Missing Time & Cl2</u>	<u>Wrong Bldg #</u>		
annon	9	0	0	0		
ncan	9	0	0	0		
nlap	16	0	0	0		
erring	28	0	0	0		
lly	9	0	0	0		
orton	24	0	0	0		
lum	9	0	0	0		
tersen	16	0	0	0		
rd	32	0	0	0		



Memorandum

6280
NREAD T-6286/2

DATE: 17 Sep 86

FROM: Director, Natural Resources and Environmental Affairs Division,
Marine Corps Base, Camp Lejeune

TO: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

SUBJ: WASTEWATER ANALYSIS

encl: (1) Oxford Laboratories Inc Rept No. 86W4872 dtd 15 Sep 86 (T-6283/13)

1. The enclosure is provided for the Utilities Director's information. Point of contact is Ms. Elizabeth Betz, x5977.

CHARLES D. PETERSON
Acting

Copy to:
EnvEngr
WQCL (wo/encl)

MEMORANDUM

TO : [Illegible]

FROM : [Illegible]

SUBJECT : [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

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7. [Illegible]

8. [Illegible]

9. [Illegible]

10. [Illegible]

11. [Illegible]

12. [Illegible]

13. [Illegible]

14. [Illegible]

15. [Illegible]

16. [Illegible]

17. [Illegible]

18. [Illegible]

19. [Illegible]

20. [Illegible]

21. [Illegible]

22. [Illegible]

23. [Illegible]

24. [Illegible]

25. [Illegible]

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

DATE RECEIVED 9-11-86
DATE REPORTED 9-15-86
86W4872

1316 South Fifth Street
Wilmington, N.C. 28401
(919) 763-9793

PAGE 1 OF 2

NAT. RESOURCES & ENVIR. AFFAIRS DIV.
BLDG. 1103
CAMP LEJEUNE , N.C. 28542

P.O. # M-67001 86M0286

ATTENTION: Supervisory Chemist

SAMPLE DESCRIPTION: Wastewater

1. Hadnot Point 9/9/86 24 hr.
2. Rifle Range 9/9/86 8 hr.
3. Onslow Beach 9/9/86 8 hr.
4. Camp Johnson 9/9/86 8 hr.
5. Tarawa Terrace 9/9/86 24 hr.
6. Courthouse Bay 9/9/86 8 hr.

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	5.28	0.71	0.86	0.95	9.43	1.00
Nitrate Nitrogen , as NO ₃ -N , PPM	8.59	4.16	5.11	7.04	10.09	5.78
Nitrite Nitrogen , as NO ₂ -N , PPM	.09	<.01	<.01	.01	.07	<.01
Total Nitrogen , as N , PPM	13.96	4.87	5.97	8.00	19.59	6.78



United States Department of Justice

ATTENTION: Supervisory Agent

- 1. Mr. J. Edgar Hoover
- 2. Mr. Clegg
- 3. Mr. Glavin
- 4. Mr. Ladd
- 5. Mr. Nichols
- 6. Mr. Rosen
- 7. Mr. Tracy
- 8. Mr. Carson
- 9. Mr. Egan
- 10. Mr. Gurnea
- 11. Mr. Hendon
- 12. Mr. Pennington
- 13. Mr. Quinn
- 14. Mr. Nease
- 15. Miss Gandy

Very truly yours,
 [Signature]

Special Agent in Charge

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

DATE RECEIVED 9-11-86
DATE REPORTED 9-15-86
86W4872

1316 South Fifth Street
Wilmington, N.C. 28401
(919) 763-9793

PAGE 2 OF 2

NAT. RESOURCES & ENVIR. AFFAIRS DIV.
BLDG. 1103
CAMP LEJEUNE , N.C. 28542

P.O. # M-67001 86M0286

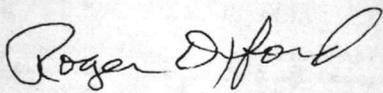
ATTENTION: Supervisory Chemist

SAMPLE DESCRIPTION: Wastewater

7. Camp Geiger 9/9/86 24 hr.

RESULTS

	<u>7</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	6.19
Nitrate Nitrogen , as NO ₃ -N , PPM	5.87
Nitrite Nitrogen , as NO ₂ -N , PPM	0.18
Total Nitrogen , as N , PPM	12.24


ROGER C. OXFORD , CHEMIST

112

Oxford Laboratory, Inc.

ATTENTION: HUMANITARIAN AID
CAMP BERTHOUD, N. CO. WYOMING
SPOC, WYO.

PLEASE PRINT NAME AND ADDRESS
OF DONOR IN FULL
ON REVERSE OF THIS LABEL

DISSOLVED OXYGEN @ CAMP GEIGER STP

3-11-86

D.O

NH₃

PLANT @ 9:00 AM 3.8

PLANT (COMPOSITE) 11.9

MANHOLE @ 10:30 AM 5.5

3-12-86

PLANT @ 9:00 AM 1.9

PLANT (COMPOSITE) 10.8

MANHOLE @ 8:30 AM 6.1

MANHOLE (GRAB) 10.5

3-13-86 @ 9:50

PLANT @ CONTACT CHAMBER 1.8

PLANT (COMPOSITE) 11.8

PLANT @ ^{INTO} WELL AFTER Cl₂ CHAMBER 4.0

MANHOLE (GRAB) 10.7

MANHOLE 6.6

PLANT @ IN WELL 6.0-6.5

3-14-86

PLANT @ CONTACT CHAMBER @ 1000 2.5

PLANT (COMPOSITE) 11.6

PLANT IN WELL @ 1045 6.6

MANHOLE (GRAB) 11.6

MANHOLE @ 9:45 7.4, 7.6

3-17-86

WELL @ ~ 9:00 5.1

3-20-86

@ WELL 8.9

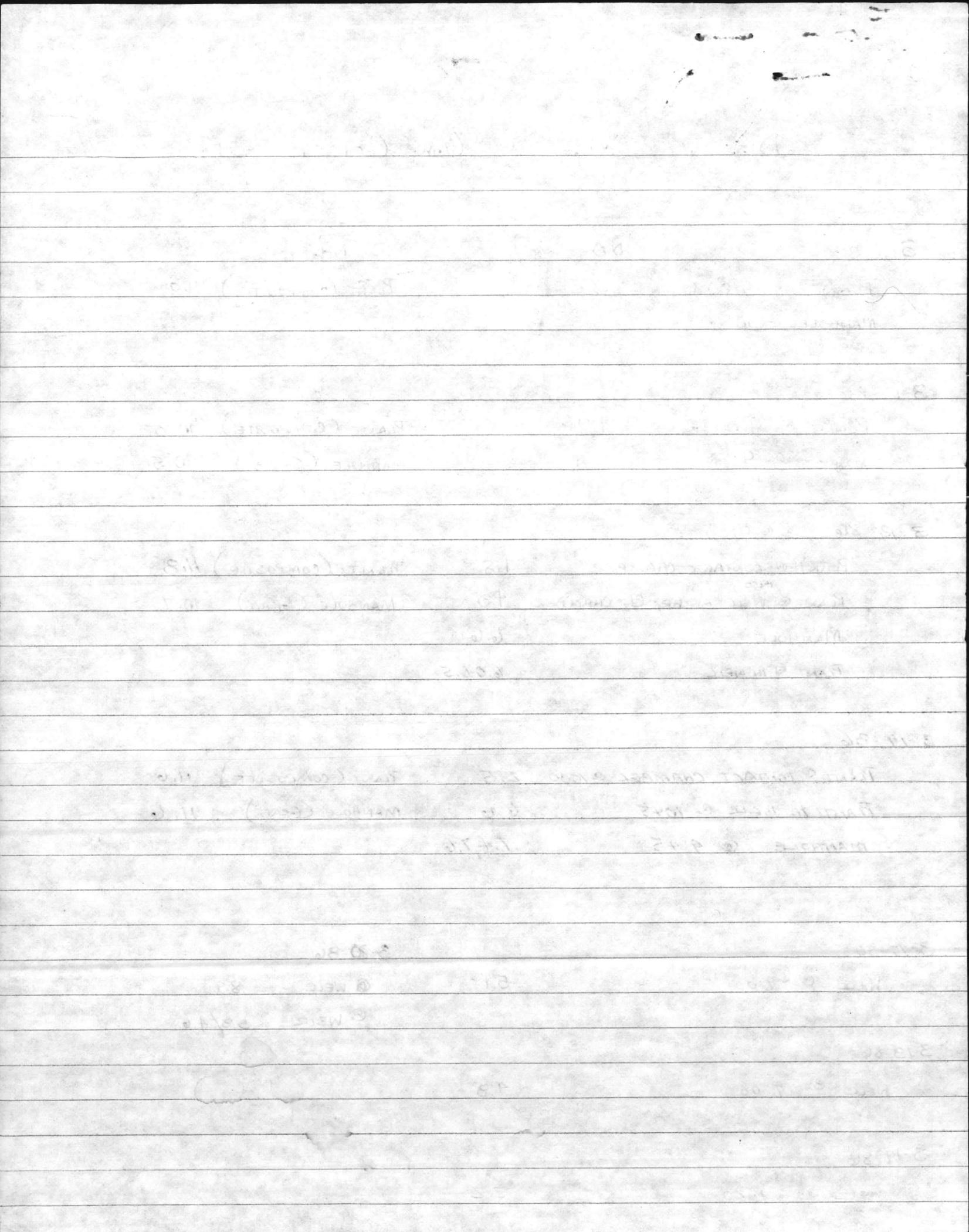
@ WEIR 5.8/4.6

3-18-86

WELL @ ~ 9:00 4.8

3-19-86

WEIR @ ~ 9:00 2.2



GOOD Δ = 5.5

@ 10:30

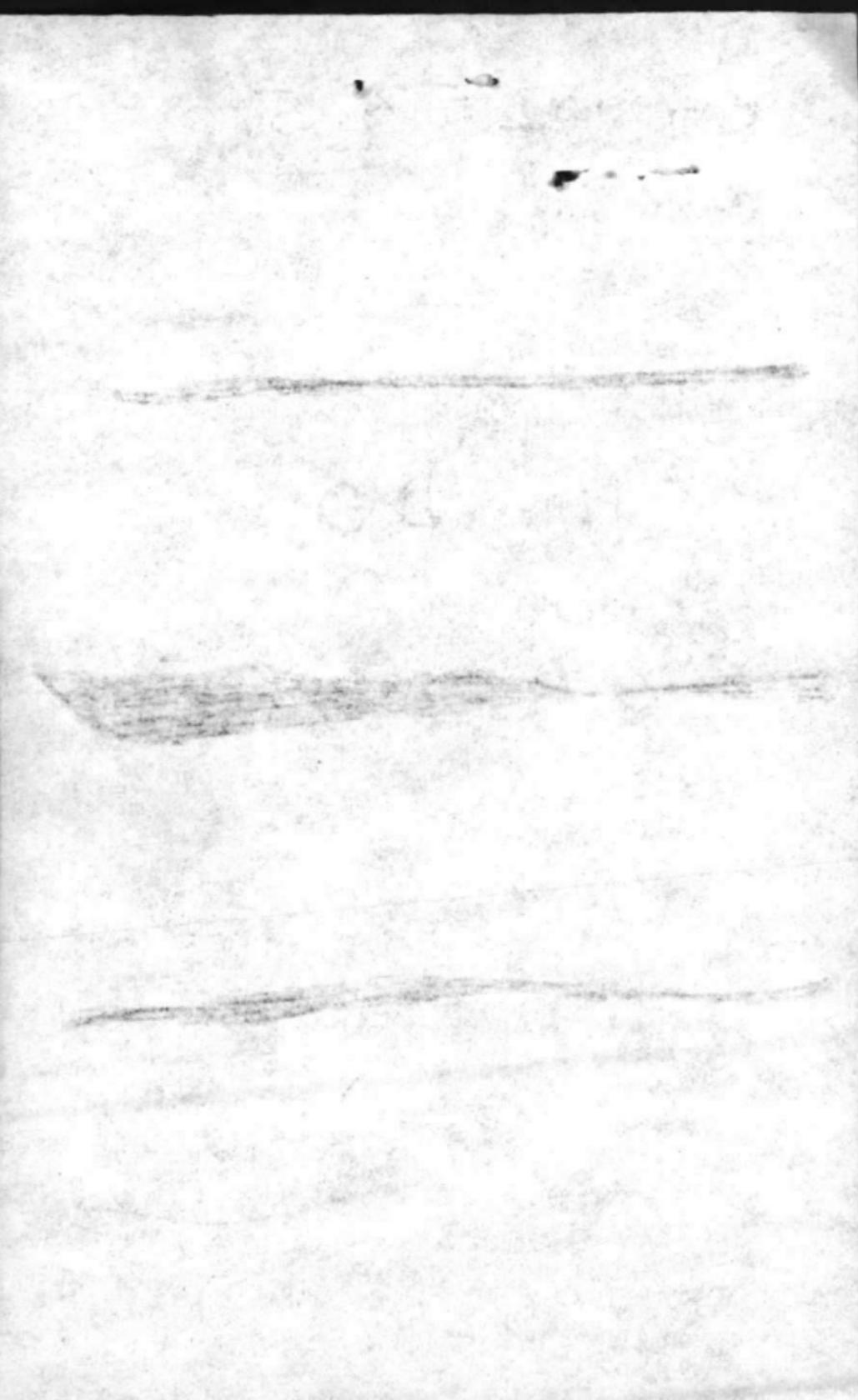
5.7

5.4

3.8 ppm

DO

@ 9:00

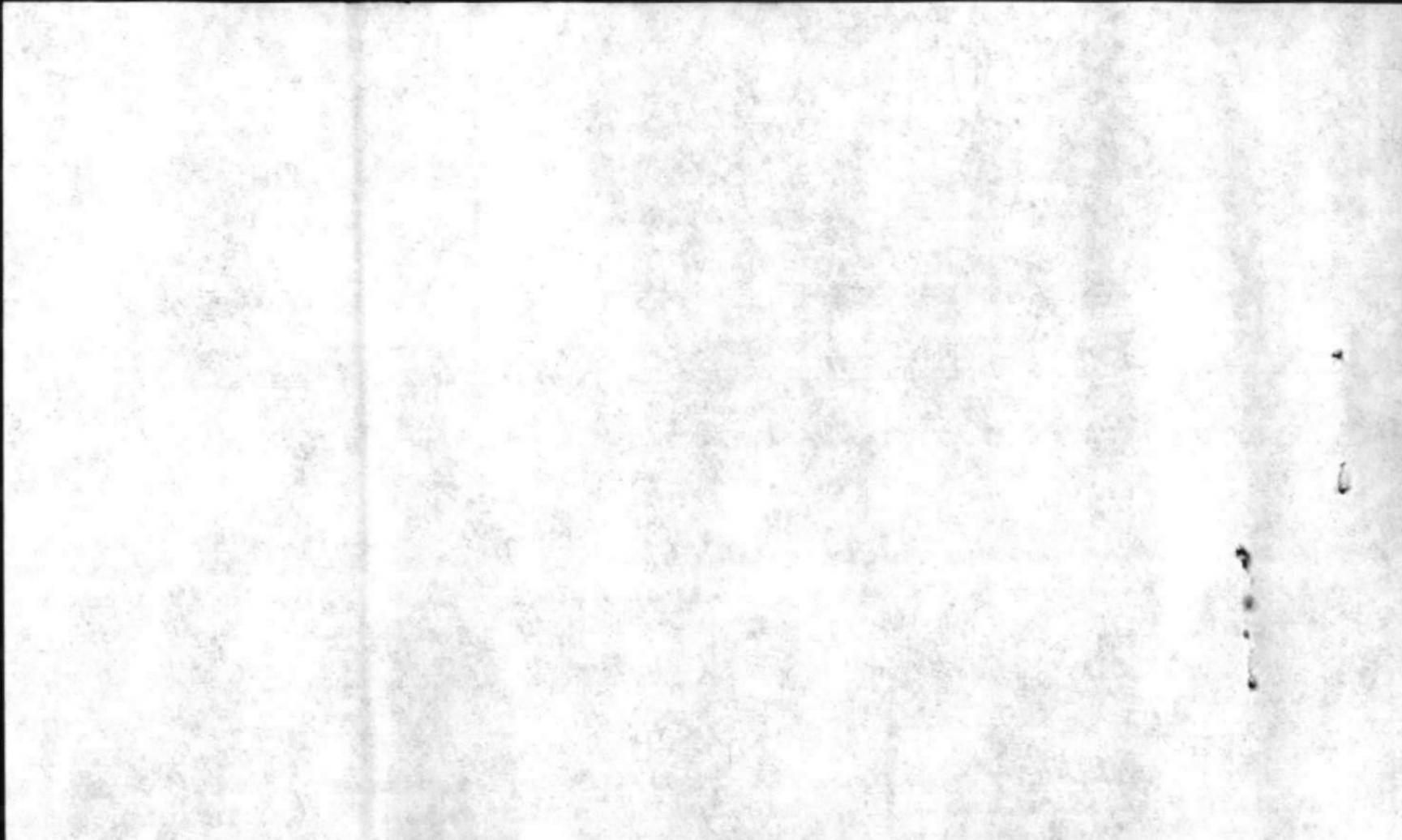


D.O. #1 6.0,

@ 9:30

#2 6.1

@ MANTHOLE



9:50

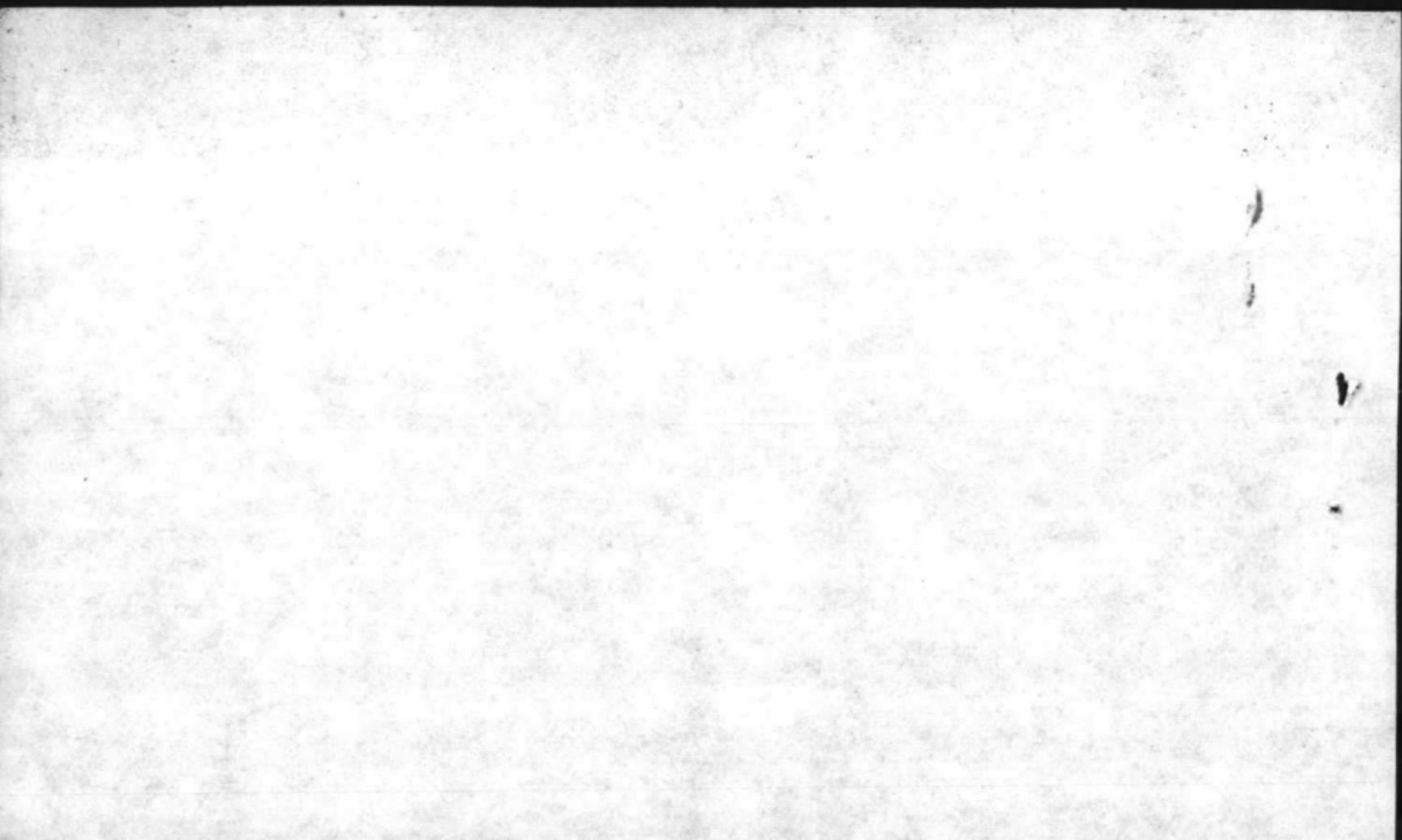
#

END OF CONTRACT CHAMBER 1.8

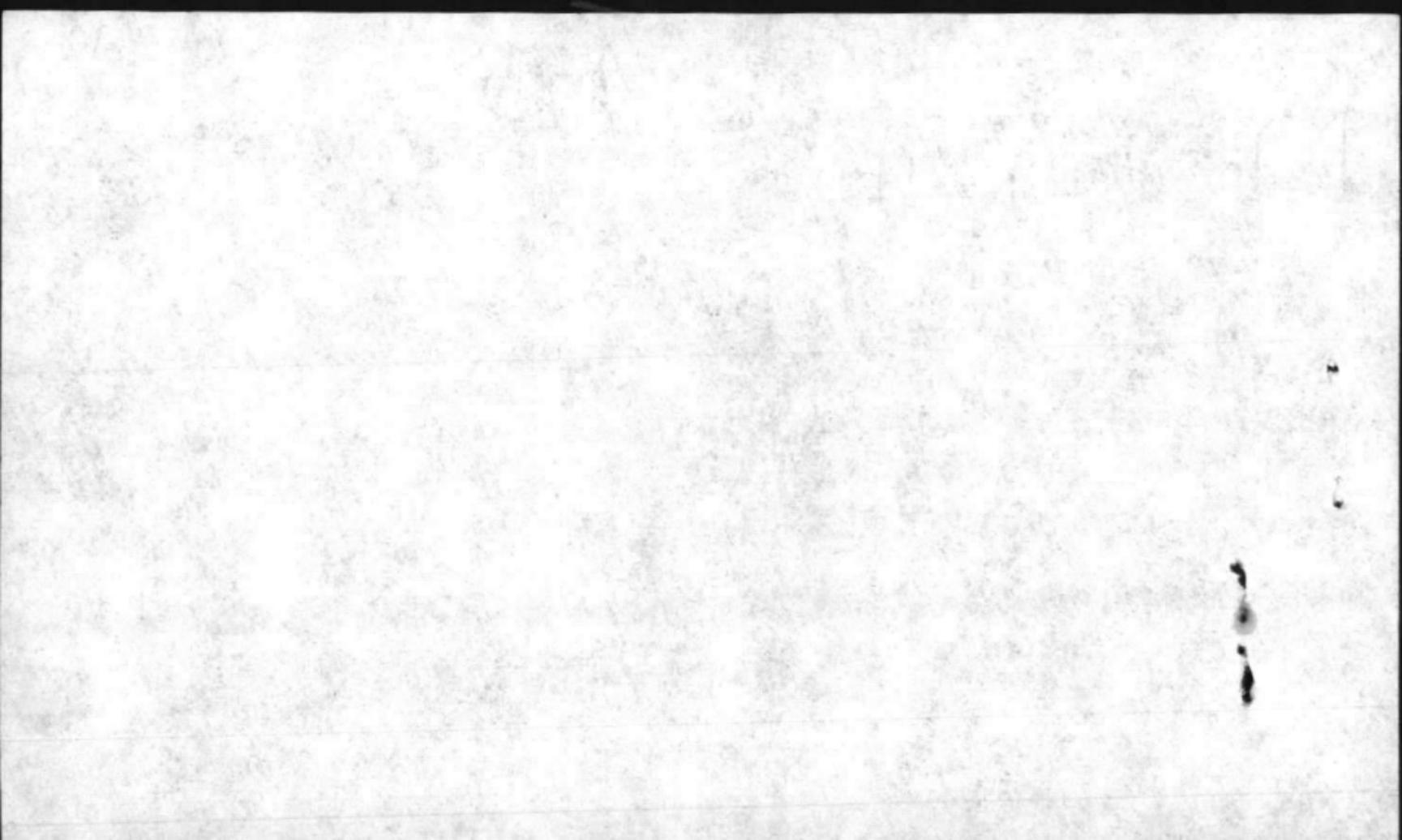
WELL (AFTER Cl_2) 4.0

MANHOLE 6.6

6.5



DO = 1.9 mg/L 0900



Geiger. Manhole

7.4

@ 9:45

7.6

WEIR 2.5

@ 1000

WELL

@ 6.6

1045

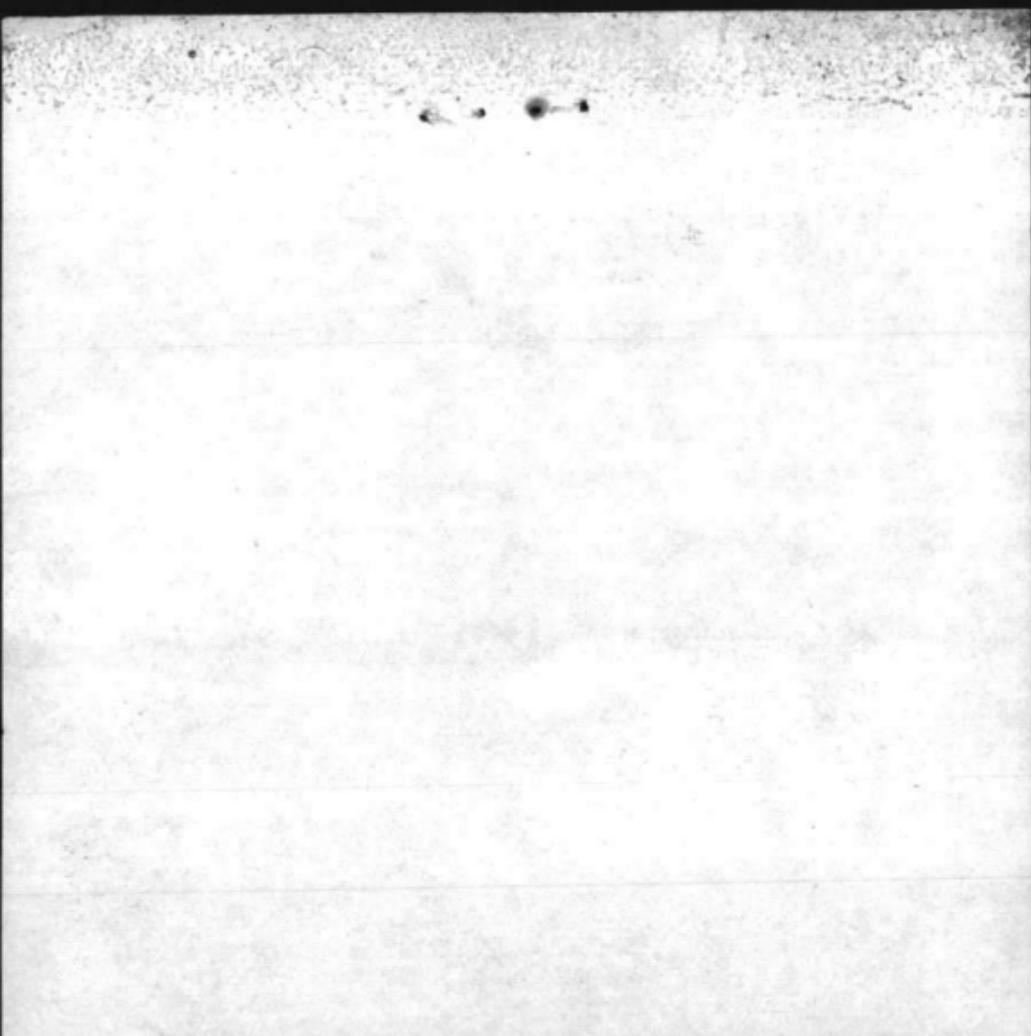
WEIR 1.9 . . .

INTO WELL 4.0

IN WELL 6.5

FUTRELL





DD8
T-6286/Z
Memorandum

11345.4
MAIN

DATE: 7 April 1986

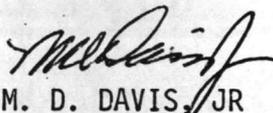
FROM: Wastewater Treatment Plant Operator Foreman

TO: Director, Natural Resources and Environmental Affairs

Via: Director, Utilities Branch

SUBJ: PERMIT VIOLATIONS FOR MONTH OF MARCH 1986

1. Onslow Beach violated the BOD and SS parameters of 85% removal, obtaining an average BOD of 92 raw, 17 final, 77% removal, and Suspended Solids of 28 raw, 4 final, 82% removal. I cite low influent BOD and SS as reason for above violation.
2. Rifle Range violated the BOD parameter of 85% removal, obtaining a raw of 48, 9 final, 80% removal. Again, low influent BOD loading appears to be the reason for violation.
3. Camp Johnson violated the BOD and SS parameters of 85% removal, obtaining BOD of 104 raw, 16 final, 80% removal, and SS of 67 raw, 9 final, 84% removal. The secondary sludge drawoff line was partially obstructed with lime deposit, and this condition coupled with low influent BOD and SS levels appears to be the reason for these results.
4. A large temperature variation during the month also contributed due to detrimental affect on zoogleal mass organisms on trickling filters.


M. D. DAVIS, JR

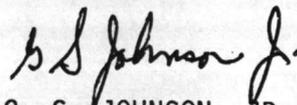
11345
MAIN
7 April 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch

To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.


G. S. JOHNSON, JR

Memorandum

To: JIW
DDO

DATE: 12 June 1986

FROM: Supervisory Chemist, Water Quality Control Lab, Environmental Branch

TO: Supervisory Ecologist, Environmental Branch

SUBJ: A/E Study: Monitoring Water & Sewage Operations; Comments on

1. General Comments: This is not new to me. I have heard talk of expanding the computer sensing on Base. This would offer a way to reduce the number of hours a plant had to be manned. AS long as the computer sensors are regularly calibrated and verified against approved analytical procedures, they would be a great alternative for some of our monitoring requirements.

2. Water Treatment:

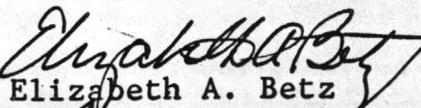
a. With the exception of alkalinities and phosphates, these sensors will cover the entire weekly chemical analysis.

b. If Tarawa Terrace is being secured as a treatment plant, why are so many sensors being installed there?

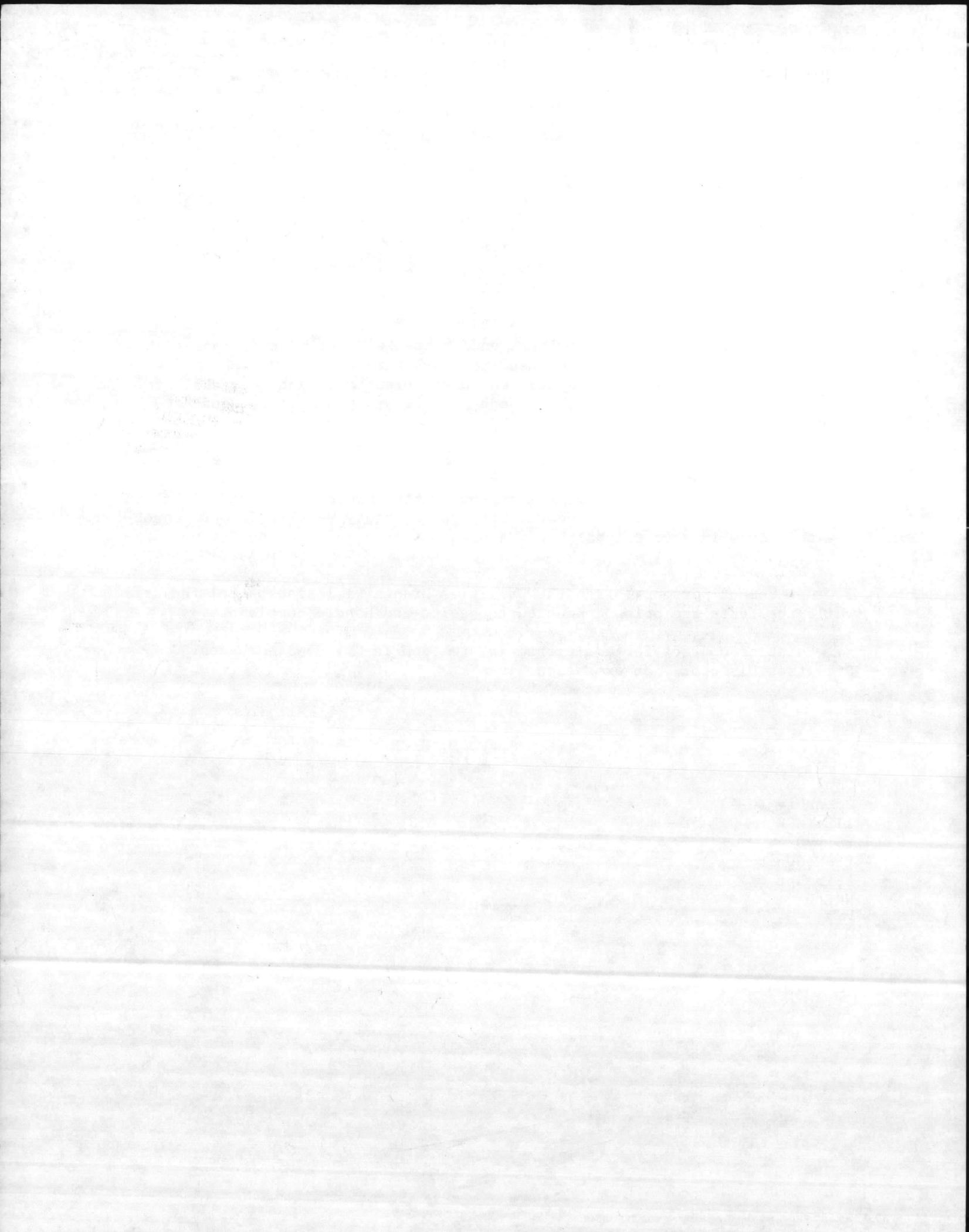
3. Wastewater Treatment:

a. Camp Geiger, Courthouse Bay and Camp Johnson were not listed for any sensors. I know Camp Geiger already has some for monitoring pumps but I don't think they have an equivalent to point #4 (Effluent D. O., pH flow, Cl₂ and turbidity). Courthouse Bay was probably covered by the contract to recently expand the plant. Cut Camp Johnson has sensors, is this an oversight?

b. If temperature sensors were included in point #4, this would cover all the NPDES required analysis that the operators would have to do.


Elizabeth A. Betz

Betsy, get up with
BoB and discuss your
concerns. DDS.



Memorandum

11345
MAIN

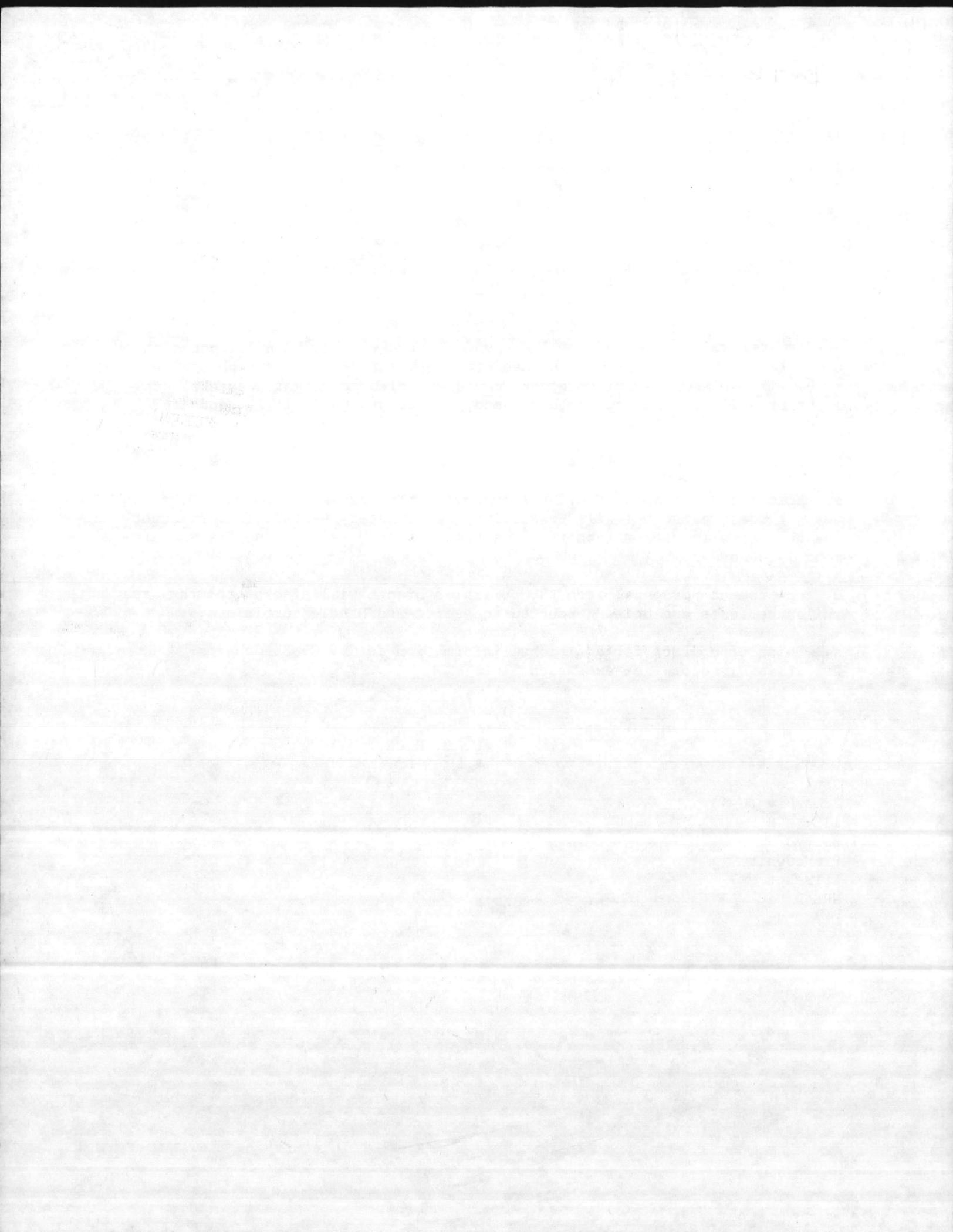
DATE: 31 Jan 86
FROM: Base Maintenance Officer
TO: Area Commander, Camp Geiger

SUBJ: SMOKE TESTING OF CAMP GEIGER SEWER LINES

1. Beginning on Monday, 17 February 1986, the sewer lines serving the Camp Geiger Area will be tested for leaks and/or breaks. During this operation a harmless type of smoke will be used to pressurize the sewer pipes. The smoke will be seen escaping through manholes, plumbing, vents, stacks, etc. The tests will continue through the end of February and will be conducted on days without rainfall.
2. If you observe this light gray smoke, do not be alarmed. Check quickly to see if the smoke testing crew is operating in your neighborhood. Personnel of Ragsdale Consultants, P.A., Lillington, North Carolina are conducting the tests. These personnel will be wearing orange safety vests. If you cannot see this crew in your neighborhood, a precautionary call to the Fire Department is in order.
3. Government personnel from the Utilities Branch will also patrol the area while the tests are being conducted to assist and handle complaints.
4. Point of contact for additional information is Mr. G. S. Johnson, Jr., Utilities Director, at extension 5161.

W. M. RICE

Copy to:
2dMarDiv (G-4)
ITS, MCB
BSftyO
PreMedUnit
BFireDpt
NREAD ✓
PMO



Page DPS

For information
only
DPS
T-6286/2

11300
MAIN

28 OCT 1985

Base Maintenance Officer

Resident Officer in Charge of Construction (Attn: Van Marshburn)

CONTRACT NO. N62470-81-C-1478, UTILITIES IMPROVEMENTS

1. The subject contract has completed five new sludge drying beds located at the Courthouse Bay Wastewater Treatment Plant. The effluent leaving these beds appears to be percolating into the ground instead of returning to the head of the plant via the underdrain system. This percolation is caused by the lack of a impervious layer of soil under the drying beds.
2. If not stopped, the effluent which enters the soil below the beds will eventually enter the groundwater and migrate into the bay adjoining the plant. Since the extent of damage to the water quality is unknown, it is requested that LANTDIVENGCOM personnel be tasked with answering the following questions:
 - a. Will the effluent reach the adjoining bay?
 - b. If so, will the water quality be degraded?
 - c. Will the Base's NPDES Permit be violated?
3. Point of contact for additional information is Mr. G. S. Johnson, Utilities Director, extension 5161.

W. M. RICE

Copy to:
AC/S, Fac (Bob Alexander)
NREAD ✓

Blind copy to:
OpnsBr
Shop 84

Writer: G. S. Johnson, Jr., Util, X5161
Typist: R. Norris, 22 Oct 85

2000

16. When a person is found to be in possession of a controlled substance, the person is presumed to be in possession of the same for the purpose of this section.

17. The possession of a controlled substance by a person who is not a licensed practitioner is a violation of this section.

18. This section shall not apply to a person who is a licensed practitioner and who is acting in the course of his or her professional duties.

T-6286/2

MARINE CORPS BASE, CAMP LEJUNE, NORTH CAROLINA
 BOARD OF HEAT FOR UTILITIES
 FOR YEAR ENDING 9. OCT 85

To Julian for info
 Scotch® 7664 "Post-it" Routing-Request Pad

ROUTING - REQUEST

T H A N K S.

Danny Dunge

Please

READ To SUPVY ECOLOGIST ^{DOS} 2 OCT 85

HANDLE 1. FOR YOUR INFORMATION.

APPROVE Mr. DAVIS PROVIDED A COPY

and

FORWARD TO ME. IT GOES TO HQ/MC

RETURN EVERY YEAR TO HELP GET

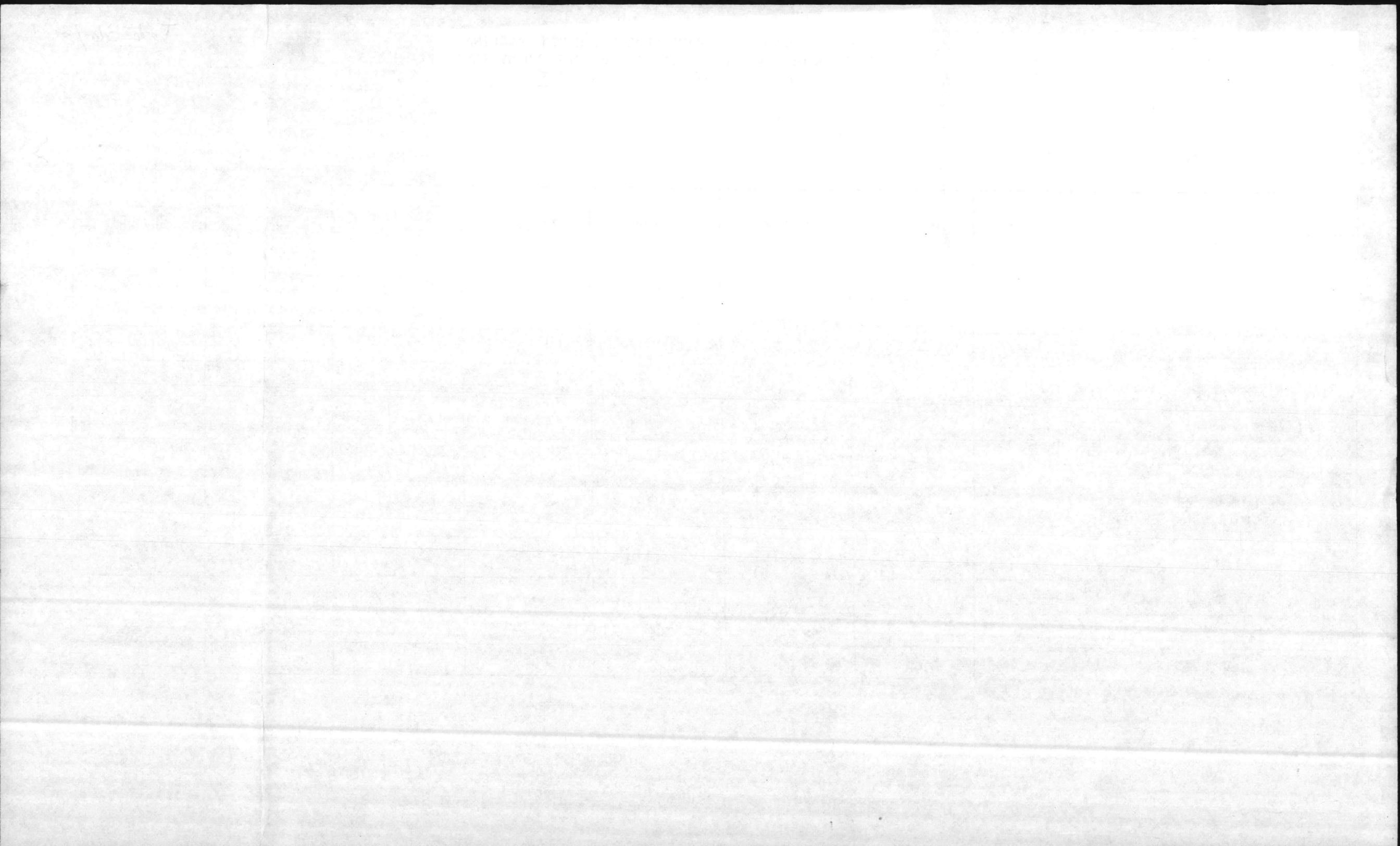
KEEP OR DISCARD FUNDING. THEY ARE REQUESTING

REVIEW WITH ME FUNDS FOR HP. #

Date 7 Oct 1985 From SUPVY CHEMIST

RR-92	BB-4	BA-116

Total Cost							
Unit Cost Delivered							
Variance Over Target							
Per Capita Sewage Flow							
Average Daily BOD and SS Effluent BOD/SS	15.14 / 7.52	8.99 / 5.21	10.87 / 5.69	15.42 / 6.88	12.26 / 7.78	6.04 / 3.87	11.42 / 4.33
Average Daily BOD and SS Influent BOD/SS	112.15 / 96.51	127.18 / 87.94	144.64 / 93.32	198.09 / 160.25	118.25 / 143.75	63.94 / 126.49	131.34 / 64.92
Percent BOD/SS Removal	86.26 / 92.21	92.93 / 94.08	92.85 / 93.90	92.22 / 95.71	89.63 / 94.59	90.55 / 96.94	91.31 / 93.33
Number of Plants Operated	1	1	1	1	1	1	1
Number of Certified Plant Operators	19	6	2	4	2	2	2
Hours Plant is Manned	24	24	8	24	8	8	8



T-6286/2

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
 FIGURES OF MERIT FOR UTILITIES PLANTS AND SYSTEMS
 FOR YEAR ENDING 9-30-85

To JULIAN for info
 Scotch® 7664 "Post-it" Routing-Request Pad

ROUTING - REQUEST

Please

READ To SUPVY ECOLOGIST ^{DOS} 8 OCT 85

HANDLE

APPROVE

and

FORWARD

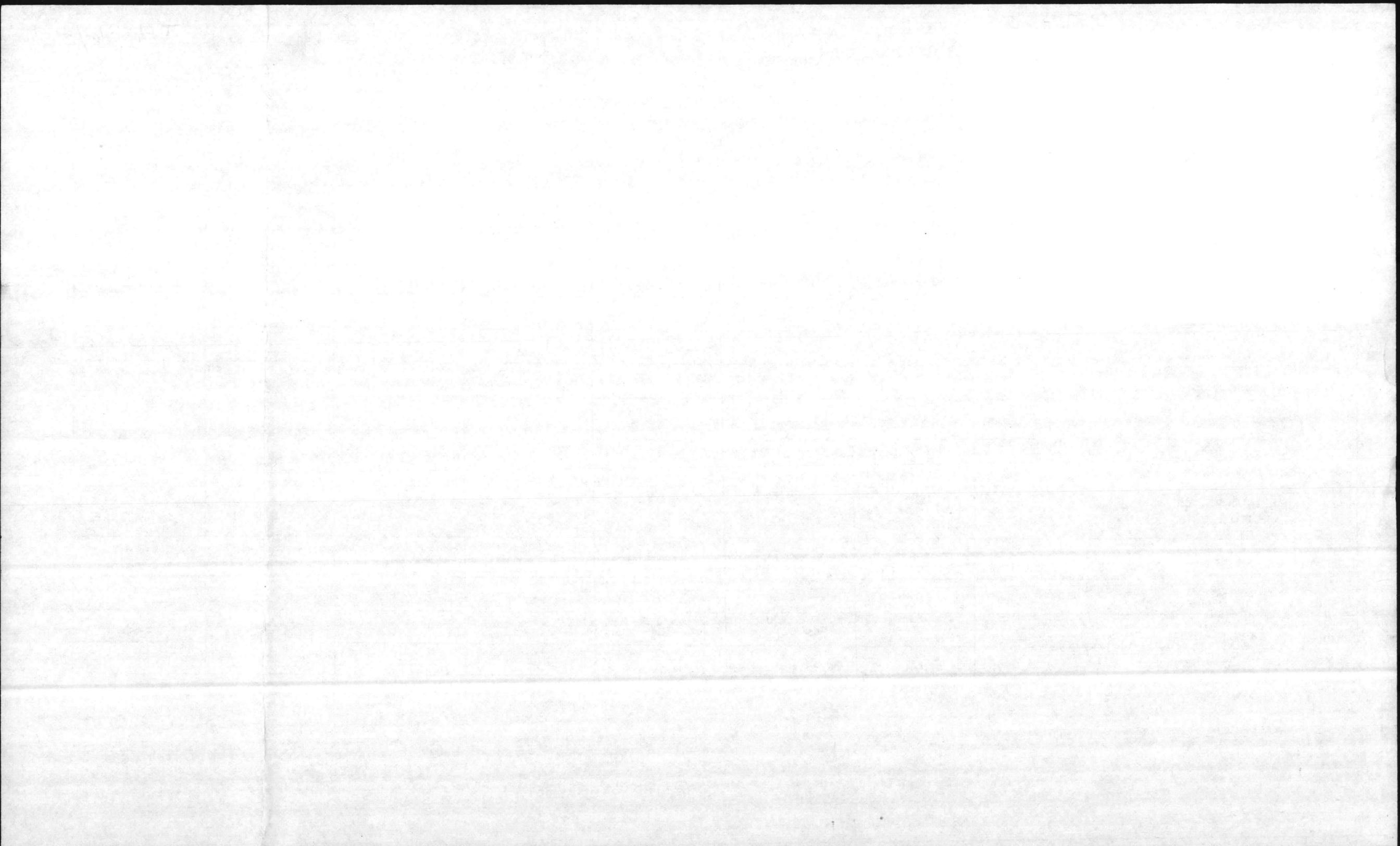
RETURN 1. FOR YOUR INFORMATION.
 MR. DAVIS PROVIDED A COPY TO ME. IT GOES TO HQMC EVERY YEAR TO HELP GET FUNDING. THEY ARE REQUESTING FUNDS FOR HP. &

KEEP OR DISCARD

REVIEW WITH ME

Date 7 Oct 1985 From SUPVY CHEMIST

	HP-22	TC-563	M-136	TT-35	RR-92	BB-4	BA-116
Total Cost							
Unit Cost Delivered							
Variance Over Target							
Per Capita Sewage Flow							
Average Daily BOD and SS Effluent BOD/SS	15.14 / 7.52	8.99 / 5.21	10.87 / 5.69	15.42 / 6.88	12.26 / 7.78	6.04 / 3.87	11.42 / 4.33
Average Daily BOD and SS Influent BOD/SS	112.15 / 96.51	127.18 / 87.94	144.64 / 93.32	198.09 / 160.25	118.25 / 143.75	63.94 / 126.49	131.34 / 64.92
Percent BOD/SS Removal	86.26 / 92.21	92.93 / 94.08	92.85 / 93.90	92.22 / 95.71	89.63 / 94.59	90.55 / 96.94	91.31 / 93.33
Number of Plants Operated	1	1	1	1	1	1	1
Number of Certified Plant Operators	19	6	2	4	2	2	2
Hours Plant is Manned	24	24	8	24	8	8	8

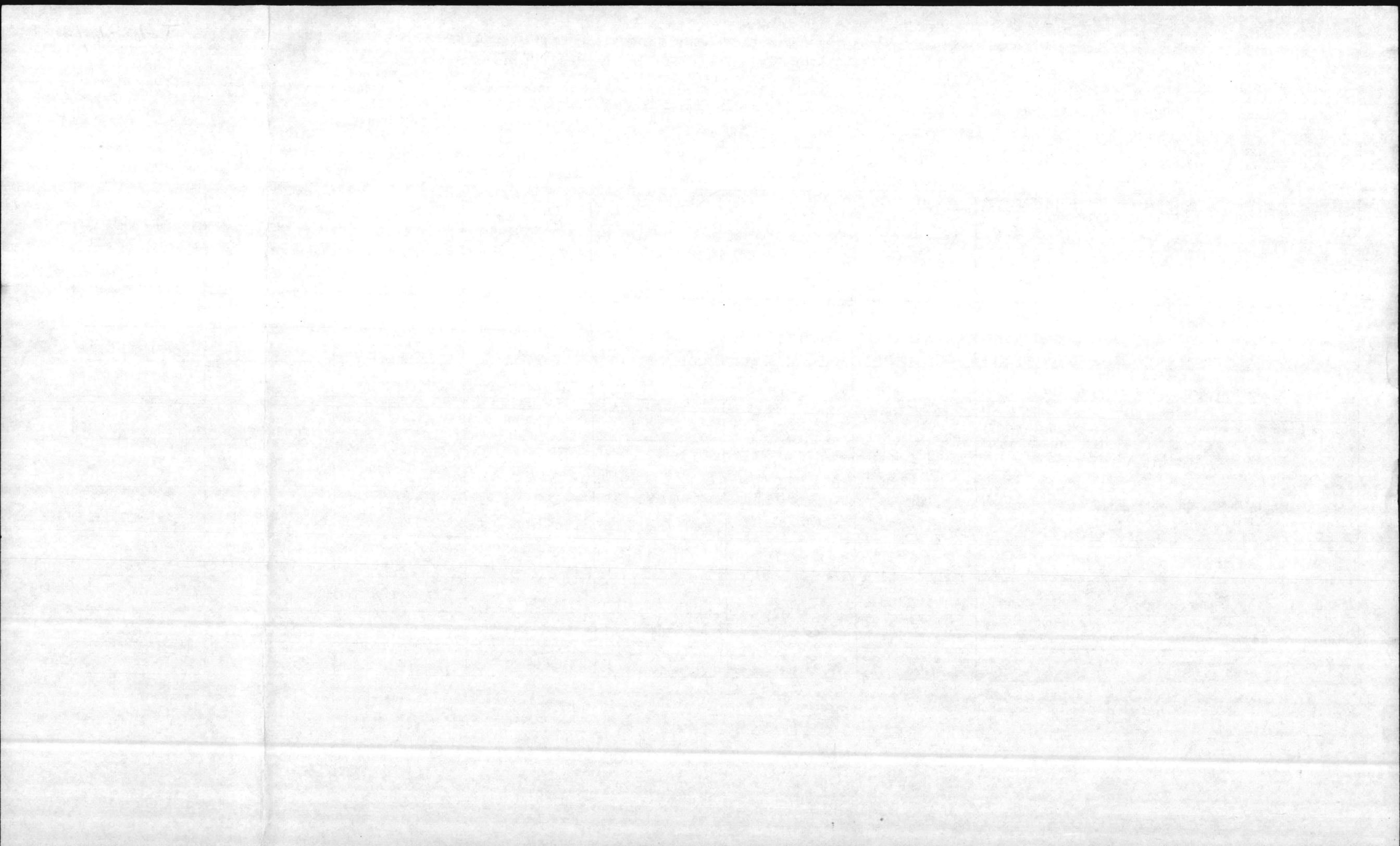


MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
 FIGURES OF MERIT FOR UTILITIES PLANTS AND SYSTEMS
 FOR YEAR ENDING 9-30-85

T-6286/2

SEWAGE

PLANTS	HP-22	TC-563	M-136	TT-35	RR-92	BB-4	BA-116
Quantities Delivered							
Total Cost							
Unit Cost Delivered							
Variance Over Target							
Per Capita Sewage Flow							
Average Daily BOD and SS Effluent BOD/SS	15.14 7.52	8.99 5.21	10.87 5.69	15.42 6.88	12.26 7.78	6.04 3.87	11.42 4.33
Average Daily BOD and SS Influent BOD/SS	112.15 96.51	127.18 87.94	144.64 93.32	198.09 160.25	118.25 143.75	63.94 126.49	131.34 64.92
Percent BOD/SS Removal	86.26 92.21	92.93 94.08	92.85 93.90	92.22 95.71	89.63 94.59	90.55 96.94	91.31 93.33
Number of Plants Operated	1	1	1	1	1	1	1
Number of Certified Plant Operators	19	6	2	4	2	2	2
Hours Plant is Manned	24	24	8	24	8	8	8



Memorandum

DATE: 29 Aug 85

FROM: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

TO: Director, Natural Resources and Environmental Affairs, Marine Corps Base, Camp Lejeune

SUBJ: BROKEN SEWER MAIN (18")

1. On 21 August 1985, the Maintenance and Repair Branch was informed by Mr. Davis, Utilities Branch, that there was a sewer main break on the road between Camp Johnson and Knox Trailer Park.
2. Upon inspection, it was discovered that the ground had caved in and had made a hole approximately 4'x5' cave in. Loss of sewage is estimated at 6,000 gallons.
3. Point of contact for further information will be Mr. Lisiewski, Acting Plumber Foreman, x5147.

W. M. Rice
W. M. RICE

30 Aug 85

From : Supervisory Ecologist
To : Supervisory Chemist

Please prepare written notice to DEM.

DRS

1

Industrial

11

1933

1933

1933

Memorandum

DATE: 11 July 1985

FROM: Supervisory Chemist, Water Quality Control Laboratory, NREAD

TO: Sewage Disposal Plant Operator Foreman, Utilities, BMD

SUBJ: pH READINGS

REF: (a) AC/S, FAC Ltr NREAD/DDS/th 11345 of 3 OCT 1983
(b) BMO Ltr MAIN/FEC/rr 11345 of 17 OCT 1983

ENCL: (1) pH Readings Using Meter of June 1985 at Camp Geiger

(2) *Mr. Davis Memo of 11 July 1985*

1. In reference (a) pH analysis and reporting procedures were outlined for your operators. Reference (b) was the BMO concurrence with these procedures. The procedure called for filling out the form used in encl (1) and submitting it to the lab by the 3rd of the following month.

2. On 8 July 1985, the laboratory received encl (1). The missing ~~dates~~ did not cause any problem in that Camp Geiger only has to sample for pH twice a week. I brought it to your attention only as an "item of interest", so encl (2) was not necessary. My note on encl (2) was again for your information.

3. In the future, please use the form used in encl (1) to send pH values to this laboratory. It asks for all the information we need on file to report your pH values.

ELIZABETH BETZ

UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO
 LIBRARY
 540 EAST 57TH STREET
 CHICAGO, ILLINOIS 60637
 TEL: 773-936-3000
 FAX: 773-936-3000
 WWW: WWW.CHICAGO.EDU

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 540 EAST 57TH STREET
 CHICAGO, ILLINOIS 60637
 TEL: 773-936-3000
 FAX: 773-936-3000
 WWW: WWW.CHICAGO.EDU

Memorandum

DATE: 10 July 1985

FROM: Sewage Disposal Plant Operator Foreman

TO: Supervisory Chemist, Water Quality Control Laboratory

SUBJ: pH FIGURE AT CAMP GEIGER

1. In regard to pH at Camp Geiger Plant, the operators left off the pH. I have cautioned the leaders to check the report sheets more carefully.
2. It is respectfully requested that the following be entered on the monthly report.

June 5, 1985	eff. pH 6.6	8-4 Operators Mr. N. Butrell & V. Williams
June 16, 1985	eff. pH 6.5	8-4 Operator So Connors
June 17, 1985	eff. pH 6.6	8-4 Operator Mr. Farland

M. Davis, Jr.
MACK D. DAVIS, JR

Mr Davis,

THE LABORATORY ALSO NEEDS THE NAMES OF THE OPERATORS WHO TOOK THESE pH READINGS AND THE TIMES FOR THEM TO BE REPORTED.

Ms. Bky

[The names above are listed as "Day shift" Operator for dates asked.

Kennedy

~~SPICE UNSATISFACTOR~~

MEMORANDUM

Handwritten scribbles or faint text in the center of the page.

Faint handwritten text or signature on the right side of the page.

Thanks

Sharpe

DATE: 4 June 85

DDS

4 June 85

Fecal Coliform / 100 ml.

8

56

48

Terrace STP

3900 (OUTFALL)

River Point 3

2100

DDS

River Point #2 is the upstream point of TT and River Point #3 is the downstream point.

DEPARTMENT OF THE NAVY

Memorandum

FROM: *Gaines Hunsbeck*

TO: E. Betz

SUB: River Run (3 Jun 87)

Location

River Point 2

Total Coliform Count

210

Danny

LET'S RUN A TESTS USING
SAMPLES TAKING FROM
END OR OUTFALL BY
MY PEOPLE

Danny
JR

DATE: 4 June 85

DDS
4 June 85

Fecal Coliform / 100ml.

8

56

48

Tamarrance STP

3900 (OUTFALL)
DDS

River Point 3

2100

River Point #2 is the upstream point of TT and River Point #3 is the downstream point.

FORM NO. 63 (REV. 6-20)
574 9103-L-778-8093

DEPARTMENT OF THE NAVY

Memorandum

FROM: *James H. Henshaw*

John P. Henshaw

TO: *F. Bets*

Location

SUB: *River Run (3 June 82)*

River Point 2

Total Colton Inland

210

June 85

Julian Please Note High

JUNIOR : Please

Note + Return

Danny

DATE: 4 June 85

DDS
4 JUNE 85

Fecal Coliform /rooml.

8

Tamworth Terrace STP

3900 (OUTFALL)
DDS

56

River Point 3

2100

48

River Point #2 is the upstream point of TT and River Point #3 is the downstream point.

OPNAV 2218 (REV. 6-70)
514 0107-L-778-8087

DEPARTMENT OF THE NAVY

Memorandum

FROM: *James H. Henshaw*

TO: E. Betz

SUBJ: River Run (3 Jun 82)

Total Coliform Count

210

location

River Point 2

7 June 85

Julian Please Note High

BACT at TT outfall

Have contacted Price And

He has No info to indicate

a problem

Does this go to Dr. Johnson?

D Shrage

Julian

DATE: 4 June 85

DDD
4 June 85

Fecal Coliform / room l.

8

56

48

Terrace STP

3900 (outfall)
DDS

River Point 3

2100

River Point #2 is the upstream point of TT and River Point #3 is the downstream point.

DEPARTMENT OF THE NAVY
516 DIO-L-77B-6097
COMMUNICATIONS SECTION

Memoandum

FROM: *James H. Henshaw, Jr.*

TO: E. Bets

SUBJ: River Point (3 Jun 57)

Total Cotton Harvest

210

Location

River Point 2

4 JUNE 1985
DDS 4 JUNE 85

DANNY,

THIS IS SOME INTERESTING DATA GAINES
~~BEING~~ BROUGHT TO MY ATTENTION. THE PLANT
SAMPLES SHOW A GEOMETRIC MEAN OF 1.26
FECAL COLIFORM FOR THE MONTH OF MAY. I
DO NOT UNDERSTAND THE HIGH READING AT
THE TT OUTFALL AND BELOW.

BETSY

DATE: 4 JUN 85

DDS
4 JUNE 85

Fecal Coliform / room l.

8

Tanner terrace STP

3900 (OUTFALL)
DDS

56

River Point 3

2100

48

River Point #2 is the upstream point of TT col and River Point #3 is the downstream point.

FORM NO. 1 (REV. 6-20)
516 0107-1-725-2001

DEPARTMENT OF THE NAVY

Memoandum

FROM: *James H. Henshaw*
James H. Henshaw

TO: E. Betz

SUBJECT: *River Run (3 Jun 52)*

Location
River Point 2
Total Cotton Pounds
210

DEPARTMENT OF THE NAVY

Memorandum

FROM: Gaines Hunequett, *Gaines B. Hunequett*

TO: E. Betz

SUBJ: River Run (3 Jun 85)

DATE: 4 Jun 85

DDD
4 Jun 85

Location

Total Coliform / 100 ml.

Fecal Coliform / 100 ml.

River Point 2

210

8

Tanawa Terrace STP

3900 (OUTFALL)
DDS

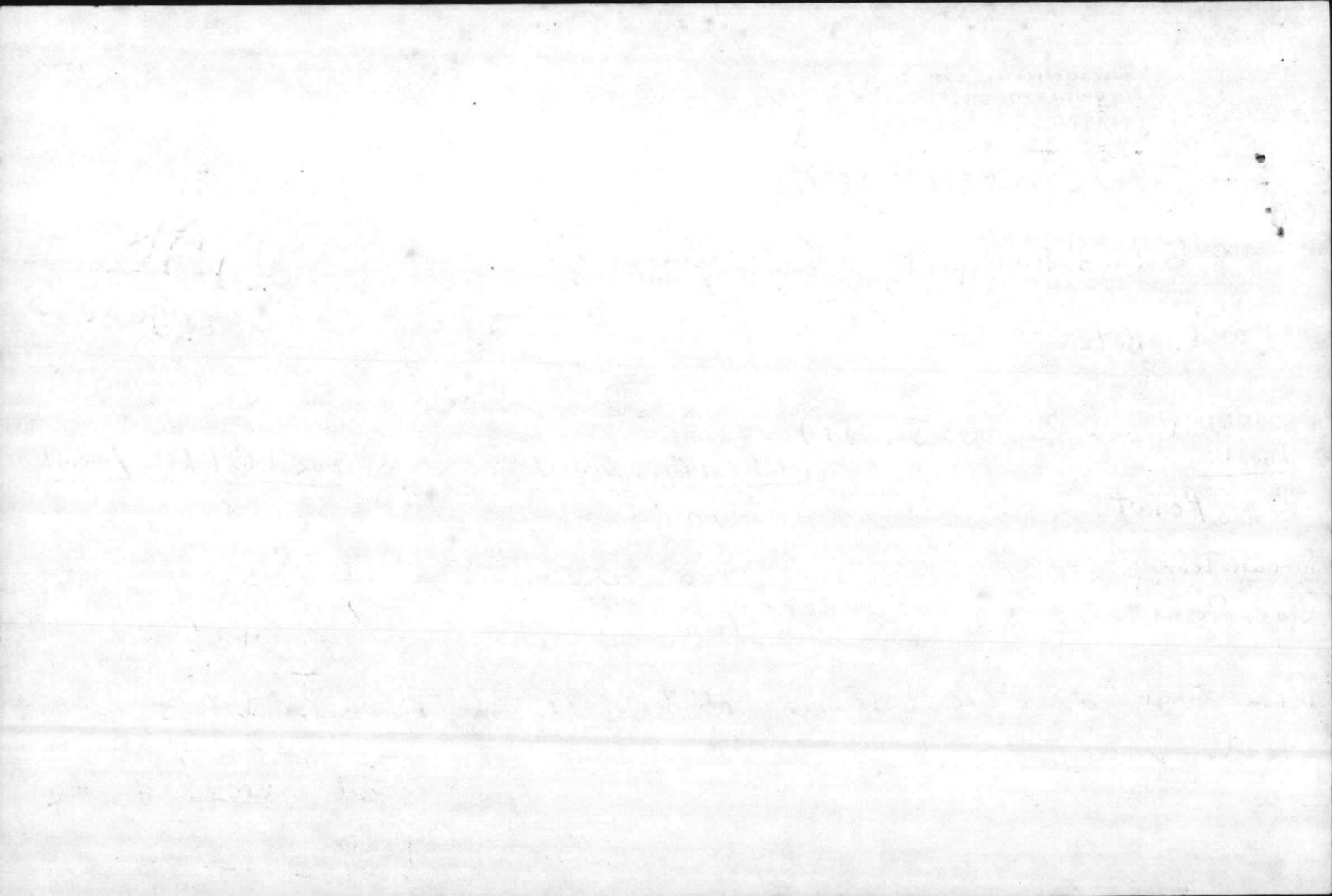
56

River Point 3

2100

48

River Point #2 is the upstream point of TT and River Point #3 is the downstream point.



MONTHLY REPORT OF WASTE TREATMENT PLANT WATER QUALITY

MCBCL 11345/8 (REV. 6-83)

DDJ

PLANT

TARAWA TERRACE

MONTH

MAY 1985

DATE	PLANT EFFLUENT DATA			5 DAY 20° C. BOD			SUSPENDED SOLIDS			COLIFORM		
	FLOW TOTAL DAILY GPD	PH	CHLORINE RESIDUAL PLANT mg/l	LAB mg/l	RAW mg/l	EFFLUENT mg/l	PERCENT REMOVAL	RAW mg/l	EFFLUENT mg/l	PERCENT REMOVAL	NUMBER PER 100 ml	GEOMETRIC MEAN
1				3.6	248	20	92	108	5	95	2	
2				3.1	228	14	94	200	6	97	0	
3				3.2	200	14	93	228	3	99		
4												
5												
6												
7				3.0	220	15	93	139	4	97	chr	
8				3.6	208	13	94	100	5	95	chr	
9				3.7	312	16	95	288	5	98	0	
10				4.0	156	13	92	110	4	96		
11												
12												
13												
14				2.8	236	14	94	385	6	98	0	
15				3.0	260	16	94	146	7	95	0	
16				2.6	192	9	95	163	3	98	0	
17				3.3	184	11	94	204	2	99		
18												
19												
20												
21				3.1	156	13	92	82	6	93	0	
22				3.4	232	10	96	190	3	98	0	
23				3.2	220	12	95	232	6	97	0	
24				2.2	244	13	95	240	2	99		
25												
26												
27												
28				2.7	164	13	92	124	6	95	4	
29				2.5	144	13	91	128	6	95	0	
30				3.2				134	8	94	2	
31				—				154	3	98		
Tot.								3350	90	1836/96.6		
Ave.								176	5	97.2	1.26	

