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File

6280/4
FAC
SEP 28 1987

Mr. Andy Law
DART Associates
2900 Saviers Row, Suite 245
Oxnard, California 93033

RE: NONPOINT SOURCE WATER
POLLUTION: STATE OF NORTH
CAROLINA REGULATIONS

Dear Mr. Law:

As requested, we are forwarding the subject regulations for your use in preparing the report on runoff controls affecting military installations. The stormwater rules requiring consideration of runoff for projects constructed adjacent to shellfish waters will be incorporated into FY-88 construction projects for the first time. The erosion and sediment control planning process has been ongoing for several years and continues to be a routine requirement for construction or other land disturbing activities. The impact of the nutrient sensitive water classification is likely to be felt primarily in the potential for phosphate removal requirements to be placed on our sewage effluents discharging into the New River. However, there have been no detailed studies on the New River which require these nutrient removal practices as the most cost effective option for management of nutrient sensitive waters.

We hope this information will be helpful to you in your project. Please provide us a copy of your report once it is completed. Mr. Bob Alexander, Marine Corps Base Environmental Engineer, is available to assist you with additional information as you desire.

Sincerely,

K. J. KIRIACOPOULOS
Director, Facilities Management Division
By direction of the Commanding General

Encl:

- (1) NC Admin Code 2B.0100 Procedures for Water Quality Standards and .0200 Classification and Water Quality Standards
- (2) NC Admin Code 2H.0400 Coastal Waste Treatment Disposal
- (3) NC Admin Code 4A Sedimentation Control

Copy to:
LantDiv Code 114

Blind copy to: w/o encl
BMO
→ NREAD
PWO
EnvEngr

SEP 8 8 1987

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Handwritten marks



pdw *Denny*



ROUTING - REQUEST

- Please
- READ
 - HANDLE
 - APPROVE
- and
- FORWARD
 - RETURN
 - KEEP OR DISCARD
 - REVIEW WITH ME

To UREAD

(copy for our)

File gdw

From AC/S, FAE

AGENCY

OFFICE OF WATER

Discharge m, for all Elimination PA's) y is

Dear NPDES P

Thank y

Monitoring R

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System (NPDE

evaluation o

Date 95ep

enclosed. If this letter has not been directed to your laboratory, please provide a copy of the enclosed statistical evaluation to the laboratory which performed the analyses for you.

You will note that each value reported has been placed in one of four categories (acceptable, check for error, not acceptable, or unusable data). If one or more of your reported values is not acceptable, you should check for sources of errors. The purpose of this notice is to provide you with results, and if the data are not acceptable, to allow you to take voluntary remedial actions. You will also note that, "true"/calculated values are provided only for the constituents you reported. If you desire a complete list of "true"/calculated values, please contact your State or Regional Coordinator.

A list of steps for identifying data handling and analytical problems is enclosed. Please submit your corrective actions in writing to your State or Regional Coordinator within 45 days. Your response will be considered by EPA/State in determining need for further follow-up. Where sources of errors are not readily apparent, your laboratory should make a systematic examination of all related portions of its analytical method(s). Quality Control (QC) check samples may be requested for self-evaluation purposes by mailing the enclosed form to the Environmental Monitoring and Support Laboratory.

To ensure that your results and actions can be considered by the proper office, documentation of all corrective actions and use of QC check samples should be sent to your State or Regional Coordinator (as specified in the following page). Please refer to your NPDES permit number in all correspondence. On behalf of EPA and the involved State Agencies, thank you and your laboratory for your cooperation and participation in this QA Program.

Sincerely yours,

James R. Elder

James R. Elder, Director

Office of Water Enforcement and Permits

Enclosures

DMR QA State Coordinators

Region I

Connecticut

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(517) 373-4624

*No State Coordinator, Only Regional

plus *Denny*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 21 1987

Dear NPDES Permit Holder:

OFFICE OF
WATER

Thank you for participating in the 1987 National Discharge Monitoring Report (DMR) Quality Assurance (QA) Program, for all major permittees in the National Pollutant Discharge Elimination System (NPDES). Environmental Protection Agency's (EPA's) evaluation of the results submitted by your laboratory is enclosed. If this letter has not been directed to your laboratory, please provide a copy of the enclosed statistical evaluation to the laboratory which performed the analyses for you.

You will note that each value reported has been placed in one of four categories (acceptable, check for error, not acceptable, or unusable data). If one or more of your reported values is not acceptable, you should check for sources of errors. The purpose of this notice is to provide you with results, and if the data are not acceptable, to allow you to take voluntary remedial actions. You will also note that, "true"/calculated values are provided only for the constituents you reported. If you desire a complete list of "true"/calculated values, please contact your State or Regional Coordinator.

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Sincerely yours,

James R. Elder
James R. Elder, Director
Office of Water Enforcement and Permits

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*No State Coordinator, Only Regional

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Quality Assurance Follow Up Checks*

CHECK YOUR METHODS

A. EPA HAS APPROVED ONLY CERTAIN METHODS FOR EFFLUENT MONITORING. NOT ALL METHODS IN "STANDARD METHODS" ARE ACCURATE AND/OR RELIABLE ENOUGH FOR NPDES MONITORING. THE LIST OF APPROVED METHODS IS CONTAINED IN THE DECEMBER 1, 1976, FEDERAL REGISTER OR 40 CFR PART 136.

B. IF YOU ARE USING AN APPROVED METHOD, CHECK TO BE SURE YOU ARE PERFORMING THE METHOD PROPERLY.

CHECK YOUR CALCULATIONS

BE SURE YOUR CALCULATIONS WERE PROPERLY DONE AND THAT YOU REPORTED THE RESULTS IN THE PROPER UNITS (I.E., MILLIGRAMS/LITER VERSUS MICROGRAMS/LITER).

CHECK YOUR STANDARD TITRATING REAGENTS

YOU SHOULD CHECK THE NORMALITY OF ALL THE TITRATING REAGENTS (PAO, THIOSULFATE, FERROUS AMMONIUM SULFATE, $K_2CR_2O_7$, H_2SO_4 , ETC.) WHICH YOU USED IN PERFORMING THE ANALYSES.

CHECK YOUR INSTRUMENTS

ALL MECHANICAL AND ELECTRONIC DEVICES MALFUNCTION OR GET OUT OF PROPER ADJUSTMENT THROUGH USE OR MISUSE. BELOW IS A LIST OF POSSIBLE PROBLEMS WITH INSTRUMENTATION.

1. CHECK BALANCE FOR ACCURACY
2. CHECK THE SPECTROPHOTOMETER FOR LINEARITY AND WAVE LENGTH
3. CHECK pH ELECTRODES
4. CHECK AA LAMPS FOR ADEQUATE LIGHT OUTPUT
5. CHECK THE D.O. METER FOR PROBLEMS

CONSULT THE OPERATING MANUALS FOR YOUR INSTRUMENTS FOR ADDITIONAL ADVICE CONCERNING INSTRUMENT CHECKS.

CHECK YOUR STANDARDS

THE SOLUTIONS WHICH ARE USED FOR CALIBRATION OF INSTRUMENTS DEGRADE FROM LIGHT, IMPROPER STORAGE, ACCIDENTAL CONTAMINATION, OR AGE. NEW STANDARDS SHOULD BE PREPARED OR PURCHASED ROUTINELY. (FOR MOST CHEMICALS, THE STANDARDS SHOULD BE PREPARED OR REPLACED AT LEAST EVERY 6 MONTHS).

CHECK FOR DATA TRANSCRIPTION ERRORS

CHECK YOUR LABORATORY PURE WATER

LABORATORY PURE WATER CAN BE CONTAMINATED FROM IMPROPER MAINTENANCE OF THE STILL OR DEIONIZER. THE MOST COMMON CONTAMINANTS ARE ZINC, CHLORINE, AMMONIA, AND BACTERIA.

IF YOU HAVE NEW PERSONNEL, CHECK TO DETERMINE THAT THEY ARE PROPERLY TRAINED TO PERFORM THESE ANALYSES .

***SOURCE: EPA — REGION VIII.**

QUALITY CONTROL SAMPLE REQUEST

Name _____ Telephone _____
Company _____
Laboratory _____
Street Address _____
City _____ State _____ Zip Code _____
Approval of Laboratory Director _____
Check Programs for which samples are requested: Ambient Monitoring Superfund (CERCLA)
 Drinking Water Wastewater Toxics (TSCA) Solid Waste/Hazardous Wastes (RCRA)

WATER QUALITY/WATER POLLUTION SAMPLES

WATER SUPPLY SAMPLES

<input type="checkbox"/> Demand	<input type="checkbox"/> PCBs in Oils	<input type="checkbox"/> WS Corrosivity/Sodium
<input type="checkbox"/> EPA/API Reference Oils	<input type="checkbox"/> Aro. 1016 in Capac.	<input type="checkbox"/> WS Herbicides
<input type="checkbox"/> Arabian Light Crude	<input type="checkbox"/> Aro. 1016 in Hydraul.	<input type="checkbox"/> WS Nitrate/Fluoride
<input type="checkbox"/> Prudhoe Bay Crude	<input type="checkbox"/> Aro. 1016 in Trans.	<input type="checkbox"/> WS Chl. Hyd. Pest. I
<input type="checkbox"/> South Louisiana Crude	<input type="checkbox"/> Aro. 1242 in Capac.	<input type="checkbox"/> WS Chl. Hyd. Pest. II
<input type="checkbox"/> No. 2 Fuel (high arom.)	<input type="checkbox"/> Aro. 1242 in Hydraul.	<input type="checkbox"/> WS Res. Free Chlorine
<input type="checkbox"/> No. 6 Fuel (high visc.)	<input type="checkbox"/> Aro. 1242 in Trans.	<input type="checkbox"/> WS Temik
<input type="checkbox"/> Bunker C	<input type="checkbox"/> Aro. 1254 in Capac.	<input type="checkbox"/> WS Trace Metals
<input type="checkbox"/> LAS	<input type="checkbox"/> Aro. 1254 in Hydraul.	<input type="checkbox"/> WS Trihalomethanes
<input type="checkbox"/> Mercury	<input type="checkbox"/> Aro. 1254 in Trans.	<input type="checkbox"/> WS Turbidity
<input type="checkbox"/> Mineral	<input type="checkbox"/> Aro. 1260 in Capac.	<input type="checkbox"/> WS Vol. Org. Cont. - I
<input type="checkbox"/> Mun. Digested Sludge	<input type="checkbox"/> Aro. 1260 in Hydraul.	<input type="checkbox"/> WS Vol. Org. Cont. - II
<input type="checkbox"/> Nonionic Surfactant Std.	<input type="checkbox"/> Aro. 1260 in Trans.	<input type="checkbox"/> WS Vol. Org. Cont. - III
<input type="checkbox"/> Nutrients	<input type="checkbox"/> Trace Metals WP - I	<input type="checkbox"/> WS Vol. Org. Cont. - IV
<input type="checkbox"/> Oil & Grease	<input type="checkbox"/> Trace Metals WP - II	<input type="checkbox"/> WS Vol. Org. Cont. - V
<input type="checkbox"/> Pesticides in Fish	<input type="checkbox"/> Trace Metals WP - III	<input type="checkbox"/> WS Vol. Org. Cont. - VI
<input type="checkbox"/> Phenols (4AAP Method)	<input type="checkbox"/> Trace Metals in Fish	<input type="checkbox"/> WS Vol. Org. Cont. - VII
<input type="checkbox"/> Suspended Solids	<input type="checkbox"/> Volatile Organics	<input type="checkbox"/> Other _____
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

PRIORITY POLLUTANTS/HAZARDOUS WASTES/TOXIC CHEMICALS

BIOLOGICAL SAMPLES

<input type="checkbox"/> n-Alkanes	<input type="checkbox"/> ICAP - 19	<input type="checkbox"/> Algae for Ident. #1
<input type="checkbox"/> Chlorinated Hydrocarbons	<input type="checkbox"/> ICAP - 7	<input type="checkbox"/> Algae for Ident. #2
<input type="checkbox"/> Chl. Hyd. Pest. WP - I	<input type="checkbox"/> Nitroaro. & Isophorone	<input type="checkbox"/> ATP
<input type="checkbox"/> Chl. Hyd. Pest. WP - II	<input type="checkbox"/> PCBs (specific Aroclors)	<input type="checkbox"/> Bacteria Indicator Strains
<input type="checkbox"/> Chl. Hyd. Pest. WP - III	<input type="checkbox"/> Aroclor 1016	<input type="checkbox"/> Enter. aerogenes
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Aroclor 1221	<input type="checkbox"/> E. coli
<input type="checkbox"/> Dichlorobenzenes	<input type="checkbox"/> Aroclor 1232	<input type="checkbox"/> Klebsiella pneumoniae
<input type="checkbox"/> EP Pest. & Herb.	<input type="checkbox"/> Aroclor 1242	<input type="checkbox"/> Pseudomonas aeruginosa
<input type="checkbox"/> EP Metals	<input type="checkbox"/> Aroclor 1248	<input type="checkbox"/> Streptococcus faecalis
<input type="checkbox"/> GC/MS Acids	<input type="checkbox"/> Aroclor 1254	<input type="checkbox"/> Sterile Lyophil. Blank
<input type="checkbox"/> GC/MS Base Neutrals - I	<input type="checkbox"/> Aroclor 1260	<input type="checkbox"/> Chlorophyll Fluoro.
<input type="checkbox"/> GC/MS Base Neutrals - II	<input type="checkbox"/> Aroclor 1262	<input type="checkbox"/> Chlorophyll Spectro.
<input type="checkbox"/> GC/MS Base Neutrals - III	<input type="checkbox"/> Phenols (GC)	<input type="checkbox"/> Reference Toxicants
<input type="checkbox"/> GC/MS Pesticides - I	<input type="checkbox"/> Phthalate Esters	<input type="checkbox"/> Sod. Lauryl Sulfate
<input type="checkbox"/> GC/MS Pesticides - II	<input type="checkbox"/> Polynuclear Aromatics I	<input type="checkbox"/> Cadmium Chloride
<input type="checkbox"/> Haloethers	<input type="checkbox"/> Polynuclear Aromatics II	<input type="checkbox"/> Simulated Plankton
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

DATE REQUESTED: _____

DATE SHIPPED: _____

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Quality Assurance Branch
Environmental Monitoring and Support Laboratory
U.S. Environmental Protection Agency
Cincinnati, OH 45268

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PERFORMANCE EVALUATION REPORT

DATE: 07/15/87

DMR-2A STUDY NUMBER 007

PERMITTEE: NC0063002

TARAWA TERRACE STP

FX NC0062995

ANALYTES	V P	REPORT VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	WARNING LIMITS	PERFORMANCE EVALUATION
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MISCELLANEOUS ANALYTES:

PH-UNITS		8.24	8.50	8.04- 8.89	8.15- 8.79	ACCEPTABLE
TOTAL SUSPENDED SOLIDS (IN MG/L)		25.4	25.1	16.4- 28.0	17.8- 26.6	ACCEPTABLE
OIL AND GREASE (IN MG/L)		22.3	25.0	13.6- 31.6	15.8- 29.4	ACCEPTABLE

NUTRIENTS IN MILLIGRAMS PER LITER:

AMMONIA-NITROGEN		4.1	5.10	4.09- 6.01	4.32- 5.78	CHECK FOR ERROR
TOTAL PHOSPHORUS		0.875	0.844	.655- 1.06	.704- 1.01	ACCEPTABLE

DEMANDS IN MILLIGRAMS PER LITER:

5-DAY BOD		107.	96.6	62.2- 131.	70.7- 122.	ACCEPTABLE
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ADDITIONAL MISCELLANEOUS ANALYTES:

TOTAL RESIDUAL CHLORINE (IN MG/L)		0.4	0.261	.0624- .492	.124- .430	ACCEPTABLE
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* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

