0008

5. Date: Jun 23 21 (mo day yr) | (Office use o...)

6. Check type of application: a. Original [X] b. Revision [ ]

7. Number of original application

8. Name of facility where discharge or construction will occur.
Camp Geiger Water Plant (Bldg: TC-508)
(Zeolite Softener Process)

9. Full mailing address of facility named in item 8 above.
Marine Corps Base
Camp Lejeune, N.C. 28542

10. Names and mailing addresses of all adjoining property owners whose property also adjoins the waterway.
N/A

11. Check to indicate the nature of the proposed activity:
a. Dredging [ ] b. Construction [ ] c. Construction with Discharge [X] b. Discharge only [ ]

12. If activity is temporary in nature, estimate its duration in months.

If application is for a discharge:

13. List intake sources

| Source | Estimated Volume in Million Gallons Per day or Fraction Thereof |
|---|---|
| Municipal or private water supply system | |
| Surface water body | |
| Ground water Deep Wells | 90 |
| Other | |

14. Describe water usage within the plant

| Type | Estimated Volume in Million Gallons Per day or Fraction Thereof |
|---|---|
| Cooling water | |
| Boiler Feed water | |
| Process water Filter backwash | 01 |
| Sanitary system* | 01 |
| Other | |

15. List volume of discharges or losses other than into navigable waters.

| Type | Estimated Volume in Million Gallons Per day or Fraction Thereof |
|---|---|
| Municipal waste treatment system | |
| Surface containment | |
| Underground disposal | |
| Waste Acceptance firms N/A | |
| Evaporation | |
| Consumption | |

* Indicate number employees served per day

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ENG FORM

## SECTION II. PLANT PROCESS AND DISCHARGE DESCRIPTION

| 1. Discharge described below is a. Present [X] b. Proposed new or changed [ ] | 2. Implementation schedule [ ] | (Office use only) |
|---|---|---|

Name of corporate boundaries within which the point of discharge is located.

| 3. State | 4. County | 5. City or Town | 6. Discharge Serial No. |
|---|---|---|---|
| North Carolina | Onslow | Camp Lejeune | |

State the precise location of the point of discharge.

7. Latitude 34 Degrees; 44 Min; 18 Sec.

8. Longitude 77 Degrees; 27 Min; 40 Sec.

9. Name of waterway at the point of discharge.

Ditch tributary to Brinson Creek

10. Has application for water quality certification or description of impact been made? If so, give date:

| Date (mo / day / yr) | Check if certificate is attached to form | Name Issuing Agency |
|---|---|---|
| — — / — — / — — | No [ ] | |

11. Narrative description of activity (include terms of general 4-digit Standard Industrial Classification, and specific manufacturing process).

This activity is a water softening plant providing a potable water supply for the area. The process includes Zeolite cation exchange for hardness removal. Waste from this plant consists of Zeolite regeneration and the backwash of filters for iron removal.

| 12. Standard industrial classification number. | 13. Principal product. | 14. Amount of principal product produced per day. |
|---|---|---|
| | Water Treatment and Distribution {Potable Water} | 885,000 gals. |

| 15. Principal raw material. | 16. Amount of principal raw material consumed per day. | 17. Number of batch discharges per day. |
|---|---|---|
| Water {Raw} | | 1 {Filter backwash} |

| 18. Average gallons per batch discharge. | 19. Date discharge began. (mo / day / yr) | 20. Date discharge will begin. (mo / day / yr) |
|---|---|---|
| 48,000 | — — / — — / 42 | — — / — — / — — |

21. Describe waste abatement practices.

Waste abatement practice per se is considered unnecessary for this plant because: {1} The material is innocuous; {2} It virtually loses its identity prior to reaching the receiving stream; {3} It creates no nuisance in the receiving stream; {4} Its thermal quality is ambient prior to reaching the receiving stream.

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22. PHYSICAL DESCRIPTION OF INTAKE WATER AND DISCHARGE

Intake | Discharge | (Office use only) Discharge Serial No.

| Parameter and (Code) | UNTREATED INTAKE WATER (1) | TREATED INTAKE WATER (2) | AVERAGE (DAILY) (3) | MINIMUM (OPERATING YEAR) (4) | MAXIMUM (OPERATING YEAR) (5) | SAMPLE FREQUENCY (6) | CONTINUOUS MONITORING (7) |
|---|---|---|---|---|---|---|---|
| Flow (Gallons per day) 00056 | 885,000 | None | 48,000 | 40,000 | 52,000 | DYLY | ABS |
| pH 00400 | 7.5 | | 8.3 | 8.3 | 8.3 | " | |
| Temperature (Winter) (°F) 74028 | 60 | | Ambient | Ambient | Ambient | | |
| Temperature (Summer) (°F) 74027 | 60 | | " | " | " | | |

23. DISCHARGE CONTENTS

| PARAMETER | PRESENT | ABSENT | PARAMETER | PRESENT | ABSENT | PARAMETER | PRESENT | |
|---|---|---|---|---|---|---|---|---|
| Color 00080 | X | | Aluminum 01105 | | X | Nickel 01067 | | X |
| Turbidity 00070 | X | | Antimony 01097 | | X | Selenium 01147 | | X |
| Radioactivity 74050 | | X | Arsenic 01002 | | X | Silver 01077 | | X |
| Hardness 00900 | X | | Beryllium 01012 | | X | Potassium 00937 | | X |
| Solids 00500 | X | | Barium 01007 | | X | Sodium 00929 | X | |
| Ammonia 00610 | | X | Boron 01022 | | X | Titanium 01152 | | X |
| Organic Nitrogen 00605 | | X | Cadmium 01027 | | X | Tin 01102 | | X |
| Nitrate 00620 | | X | Calcium 00916 | X | | Zinc 01092 | | X |
| Nitrite 00615 | | X | Cobalt 01037 | | X | Algicides 74051 | | X |
| Phosphorus 00665 | | X | Chromium 01034 | | X | Oil and Grease 00550 | | X |
| Sulfate 00945 | | X | Copper 01042 | | X | Phenols 32730 | | X |
| Sulfide 00745 | | X | Iron 01045 | X | | Surfactants 38260 | | X |
| Sulfite 00740 | | X | Lead 01051 | | X | Chlorinated Hydrocarbons 74052 | | X |
| Bromide 71870 | | X | Magnesium 00927 | | X | Pesticides 74053 | | X |
| Chloride 00940 | X | | Manganese 01055 | | X | Fecal Streptococci Bacteria 74054 | | X |
| Cyanide 00720 | | X | Mercury 71900 | | X | Coliform Bacteria 74055 | | X |
| Fluoride 00951 | | X | Molybdenum 01062 | | X | | | |

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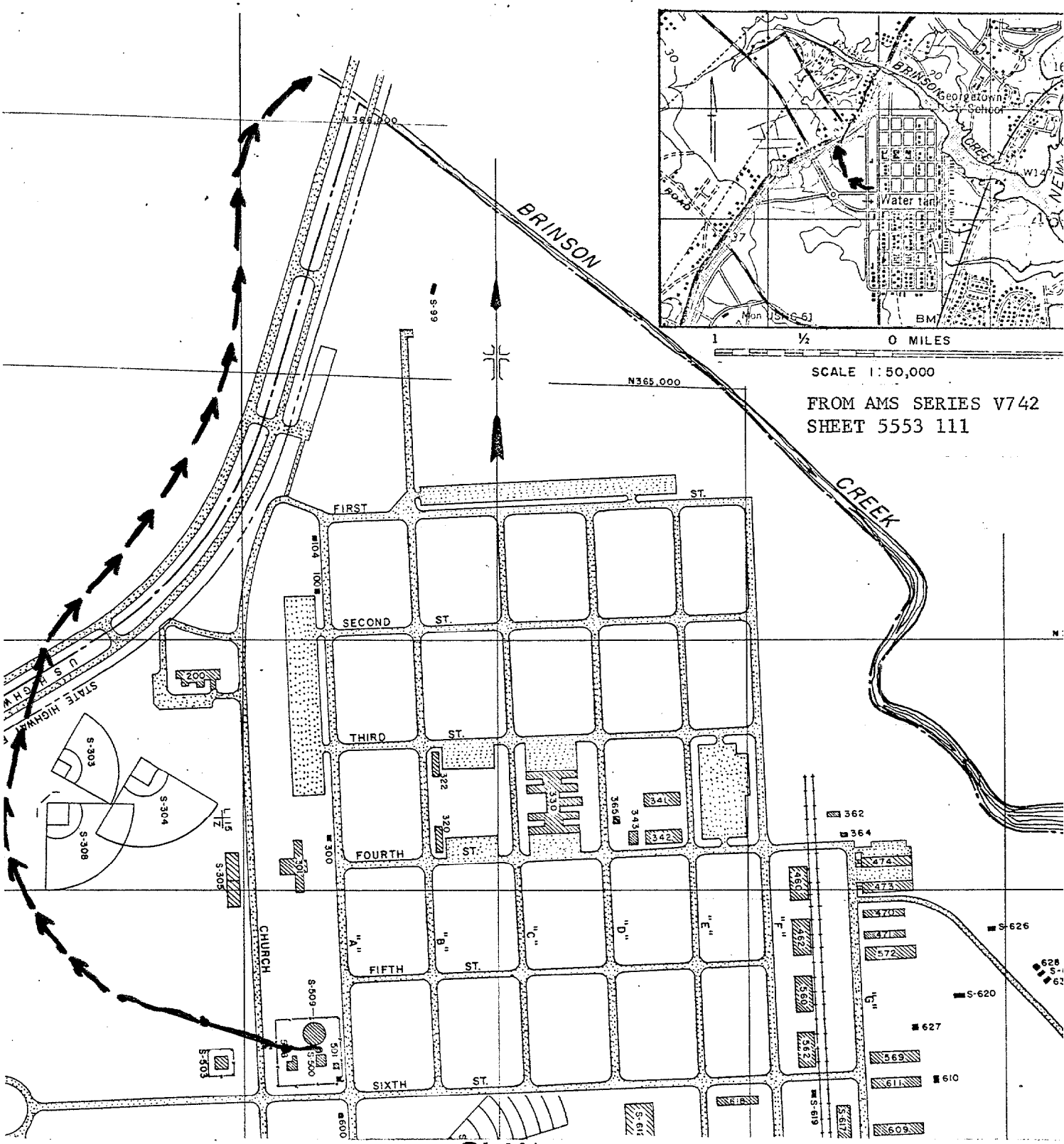


FROM AMS SERIES V742
SHEET 5553 111

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WATER SOFTENING PLANT WASTE DISCHARGE
in Ditch tributary to Brinson Creek
at Camp Lejeune - Camp Geiger Area
County of Onslow, State North Carolina
Application by Commanding General
Sheet 1 of 1 23 June 1971 Date