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18 July 1985

From: Director, Natural Resources and Environmental Affairs
Division, Marine Corps Base, Camp Lejeune
To: Mr. Gary Robertson, Natural Resources, Installation Division,
MCA GCC, 29 Palms, California 92278

Subj: REQUEST FOR INFORMATION

Encl: (1) Photographs (3) and Slide (1) of Tank Washing Facility,
Building #1854, Marine Corps Base, Camp Lejeune
(2) Excerpts from Operational Maintenance Manual for Pollution
Abatement Facilities, Marine Corps Base, Camp
Lejeune, Volume I

1. Enclosures (1) and (2) are provided per recent request during
a phone conversation between Mr. Gary Robertson, MCA GCC, and Mr.
Danny Sharpe, Marine Corps Base, Camp Lejeune. Please refer
questions to Mr. Sharpe at Autovon 484-5003.

C. D. PETERSON
Acting

Writer: D. D. Sharpe, NREAD 5003
MCA GCC, 29 Palms, California 92278

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The following information was obtained from the records of the
Department of the Interior, Bureau of Land Management, on
the subject of the land described in the foregoing.

The land described in the foregoing is situated in the
County of [unclear], State of [unclear]. It is bounded
on the north by [unclear], on the south by [unclear],
on the east by [unclear], and on the west by [unclear].

The land described in the foregoing is owned by [unclear],
and is subject to the following conditions:

1. The land is to be used for [unclear] purposes.
2. The land is to be used for [unclear] purposes.
3. The land is to be used for [unclear] purposes.

The land described in the foregoing is subject to the
following conditions:

1. The land is to be used for [unclear] purposes.
2. The land is to be used for [unclear] purposes.
3. The land is to be used for [unclear] purposes.

The land described in the foregoing is subject to the
following conditions:

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following conditions:

18. LARGE GRIT CHAMBER (TANK/AUTO MAINTENANCE FACILITY).

NOTE: This facility was not constructed under Project P-996. It is included in this manual because it involves pollution abatement practices similar to those constructed under P-996.

A two island washstand is provided at the Tank/Auto Maintenance Facility for washing down and cleaning tanks and other military vehicles. The washstand uses three yard hydrants and three steam hydrants for washing these vehicles. All wastewater generated from the washing operations flows into a trench drain which carries the wastewater to a large grit chamber adjacent to the washstand.

During field exercises tanks and other vehicles can "pick up" large accumulations of dirt and sand. Before entering the parking area or maintenance shop these vehicles must be cleaned. This is accomplished at the washstand and the dirt and sand removed from these vehicles is collected in the grit chamber. The purpose of the grit chamber is to remove the sand and other heavy solids from the wastewater before it enters the sanitary sewer and causes problems with clogging or deterioration of downstream equipment, such as, pumps.

The grit chamber has dimensions of 15'-0" wide x 30'-4" long x 4'-10" maximum depth with one end sloped on a 25% grade for access. The chamber is designed to periodically allow a front end loader to drive down into the facility and remove the accumulations of grit so it can be hauled to a sanitary landfill. At the discharge end of the grit chamber is an outlet weir structure designed to retain the grit accumulations and allow the wastewater to overflow and be discharged to an oil/water separator. The weir structure uses a series of wooden planks for damming the opening between the grit chamber and the outlet, and acting as the



weir assembly. Whenever the grit chamber requires complete draining, these planks can be removed, however, during normal operations they should remain in place to retain the grit in the grit chamber.

Since the wastewaters generated from the washing operations are likely to contain oil and other pollutants, pretreatment is required before discharging into the sanitary sewer system. Therefore, effluent from the outlet structure of the grit chamber flows into an oil water separator designed to remove free oils from the wastewater and keep it out of the sanitary sewer. Recommended maintenance of the oil/water separator is described in the section entitled "Wash Apron/Grease Rack Facilities".

Figure No. 21 shows a typical plan and section of the Large Grit Chamber.

