



# FIELD WASTE DISPOSAL

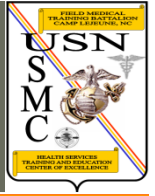




# OVERVIEW



- Types of Waste
- Guidelines for Latrine Placement
- Devices Used for Human Waste
- Devices Used for Liquid Waste
- Garbage and Rubbish Disposal
- Guidelines for Garbage Pit Placement



# LEARNING OBJECTIVES

Please Read Your

Terminal Learning Objectives

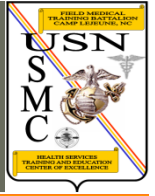
And

Enabling Learning Objectives

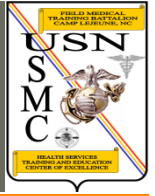




# WASTE



- All types of liquid and solid material excreted from the body as useless or unnecessary as a result of living activities of humans or animals.
  - Human
  - Liquid
  - Garbage
  - Rubbish



# TYPES OF WASTE

- HUMAN WASTE
  - Feces
  - Urine
  - Blood / body fluids
- LIQUID WASTE
  - Bath water
  - Liquid kitchen waste



# TYPES OF WASTE



- GARBAGE
  - Organic materials from food service operations
- RUBBISH
  - Boxes
  - Cans
  - Paper
  - Plastic





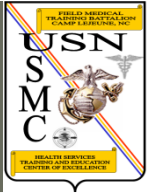
# GUIDELINES FOR LATRINE PLACEMENT

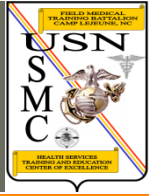


# LATRINE PLACEMENT



- DISTANCE
  - At least 100 feet from water sources
  - At least 100 yards (300 ft) from food operations
  - 50 feet from berthing areas

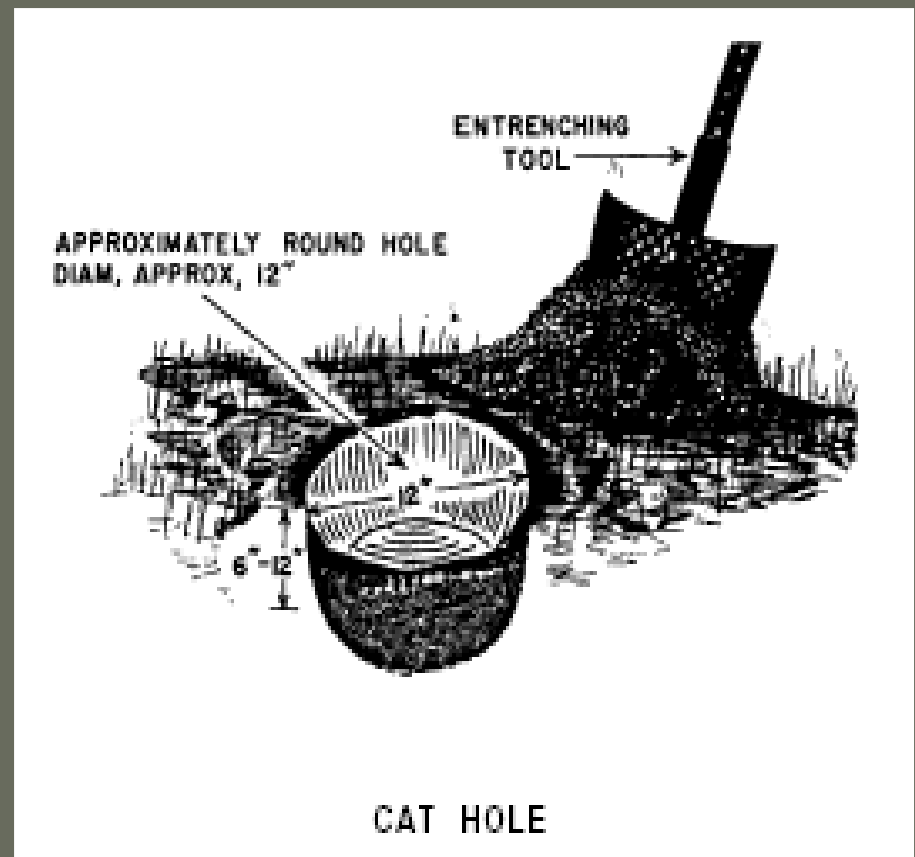




# FIELD SANITATION DEVICES FOR HUMAN WASTE DISPOSAL

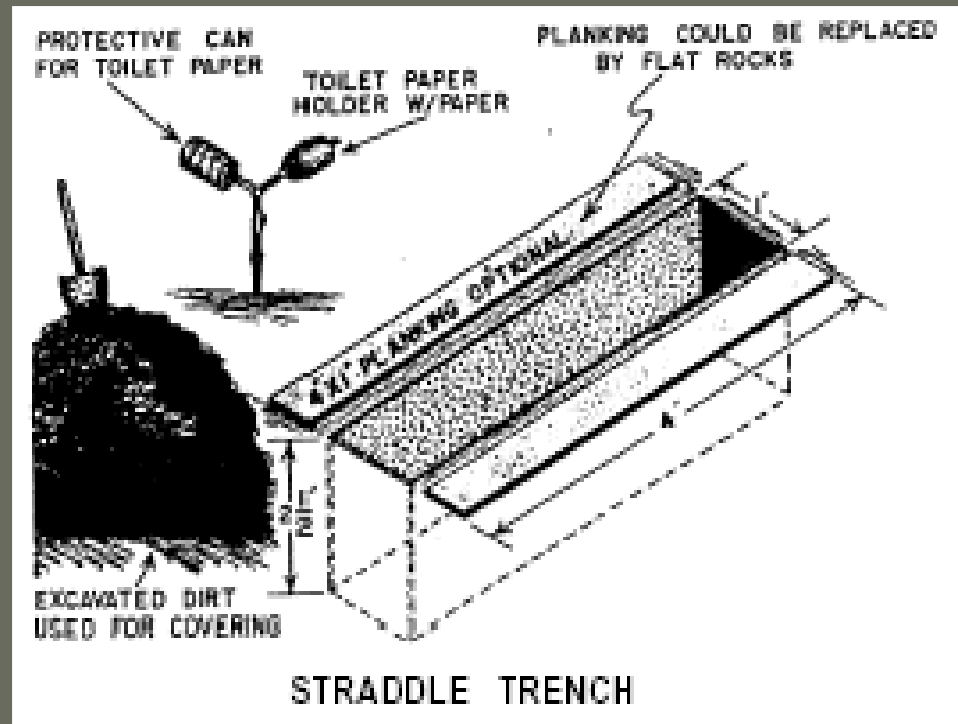
# FIELD SANITATION DEVICES

- CATHOLE
  - Used on the move
  - Use E-Tool
  - 12" diam. x 12" deep
  - Cover immediately after use



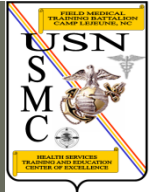
# FIELD SANITATION DEVICES

- STRADDLE TRENCH
  - Temporary bivouac of (1 to 3 days)
  - (4) trenches per (100) troops
  - Construction
    - 1 ft wide x 2 ½ ft deep x 4 ft long
    - Use wood planks on each side
    - Forked stick with coffee can to cover toilet paper



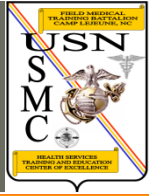


# AFGHANISTAN





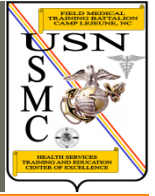
# FIELD SANITATION DEVICES



- BURN BARREL LATRINE
  - MOST COMMON latrine used in the field
  - Used in area of high water tables
  - (8) seats required per 100 troops
  - Place sign on door: DO NOT URINATE
  - Built as (2) or (4) seats over 55 gal. drum cut in half



# BURN BARREL LATRINE



- Operation
- Prime drums with 3" of diesel
- Burn cans daily
  - 4 parts diesel to 1 part gas
- Clean, disinfect and check screens daily
- Bury ash of burnt fecal matter



# BURN BARREL LATRINE

## TYPICAL BURN BARREL LATRINE

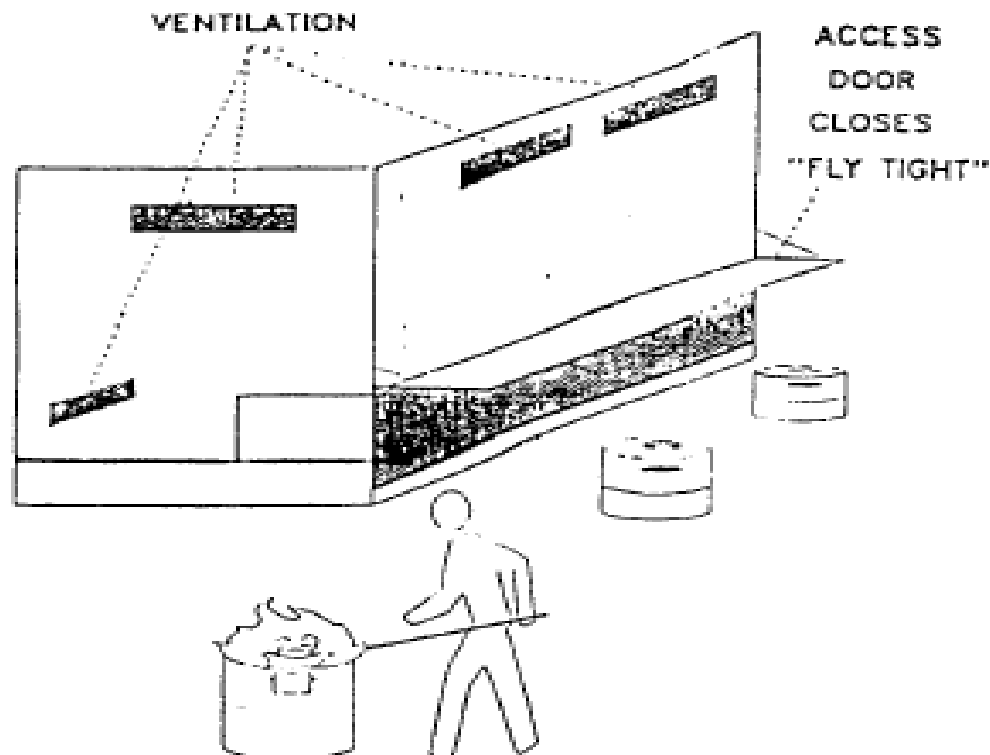
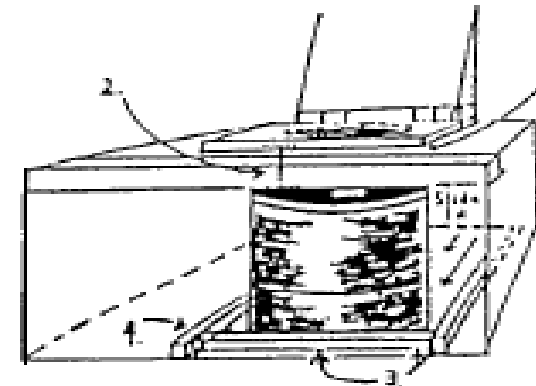


Figure 9-10.



### DETAILS

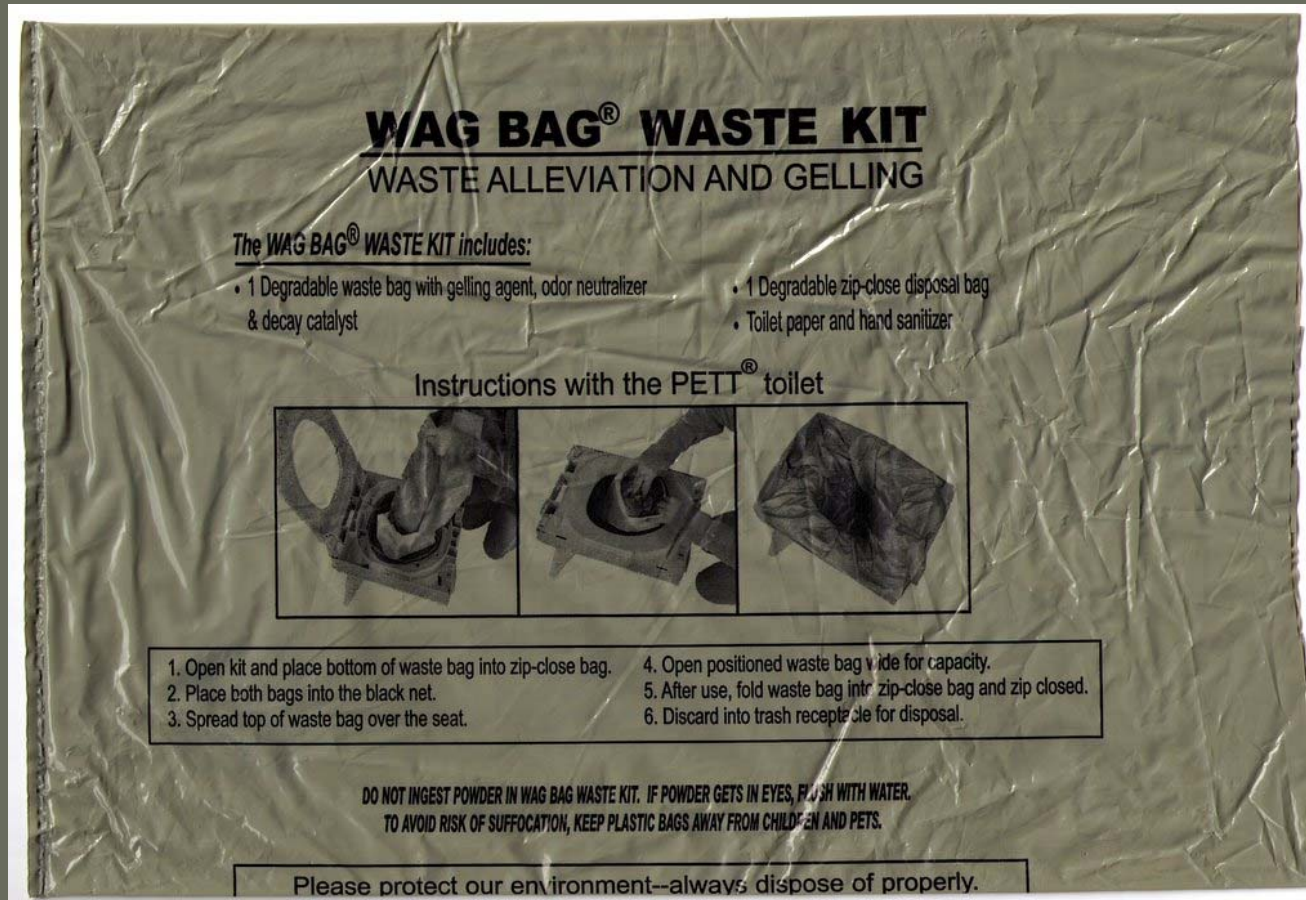
1. FORWARD EDGE OF HOLE SHOULD BE WELL BACK FROM THE EDGE OF THE BENCH(4-6").
2. TOP RIM OF BARREL SHOULD BE NO MORE THAN 2" FROM UNDERSIDE OF SEAT. (MORE THAN 2" WILL RESULT IN SPLASHING AND SPILLAGE INTO COMPARTMENT.)
3. THE BARREL SHOULD BE PUSHED ALL THE WAY BACK AGAINST THE BACK STOP WHICH HELPS TO CENTER CAN UNDER HOLE.
4. RUNNERS AID TO CENTER BARREL UNDER HOLE TO PREVENT SPILLAGE.

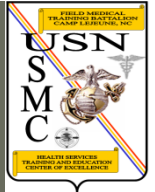
**BURN BARREL LATRINES with**  
**HAND WASHING STATION**

Note:  
Poor Screening  
No Doors

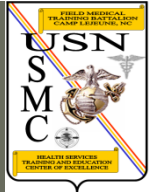


# WAG-BAG





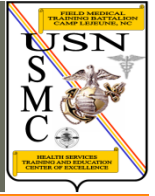
FMST 206



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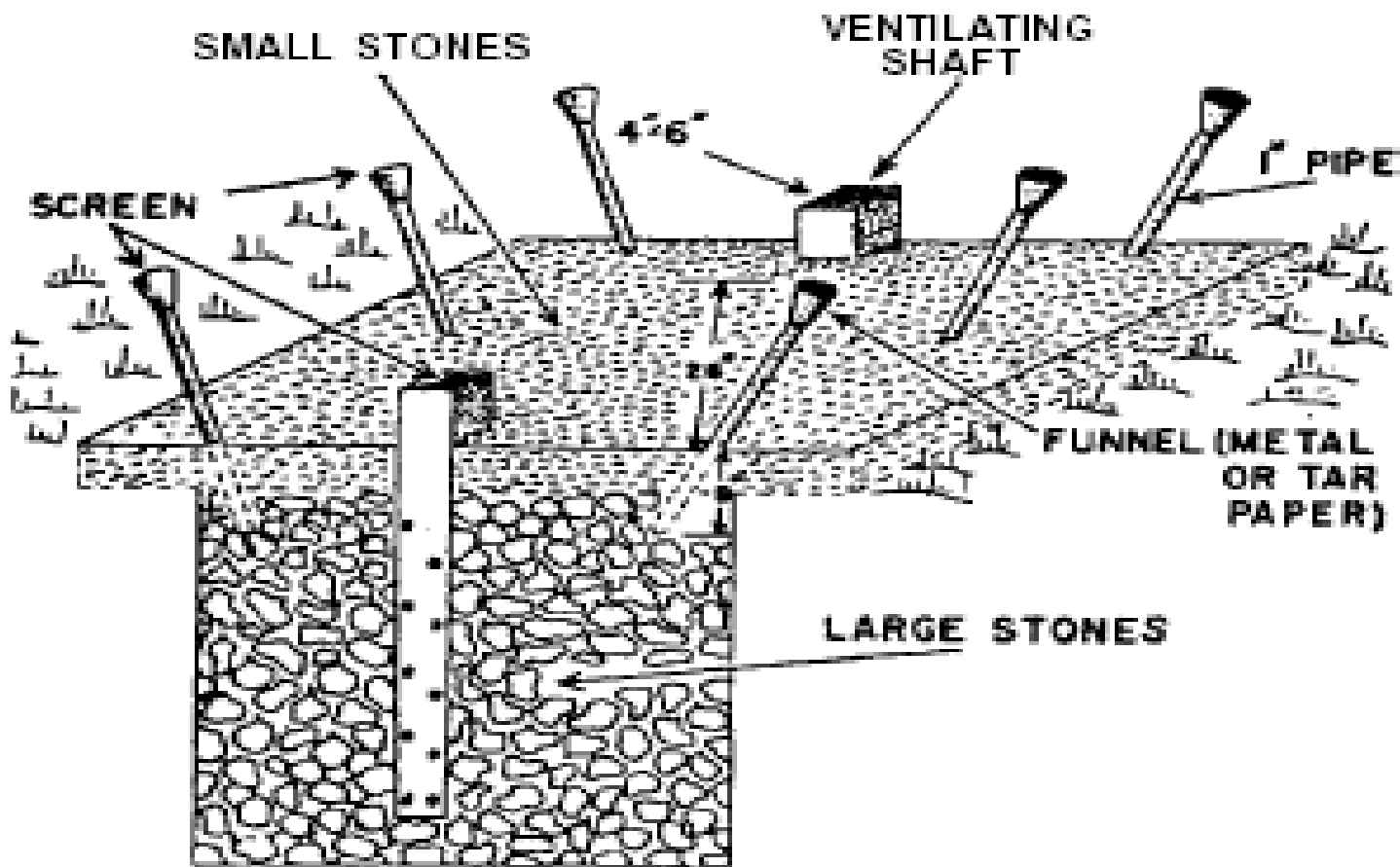


# URINE DISPOSAL DEVICES



- Temporary latrine used in sandy soils.
  - One pipe can accommodate 20 men.
  - Pit: 4' x 4' x 4'
  - Fill with large rocks, flattened cans, bottles, rubble
  - Insert six 1" diam. 36" long pipes at an angle with 8" of pipe below surface
  - Ventilation shaft at each end of pit, 6-12 inches above ground
  - Cover ends of each tube with a funnel and mesh material

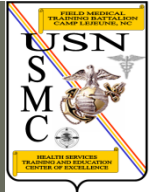
# URINE DISPOSAL DEVICES



URINE SOAKAGE PIT



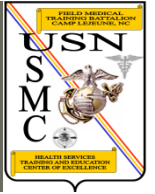
# URINE DISPOSAL DEVICES



# OTHER TYPES OF LATRINES

- CHEMICAL TOILETS
  - Maintained by contracted services
  - Commonly used in garrison or training
  - One toilet can service up to 15 personnel



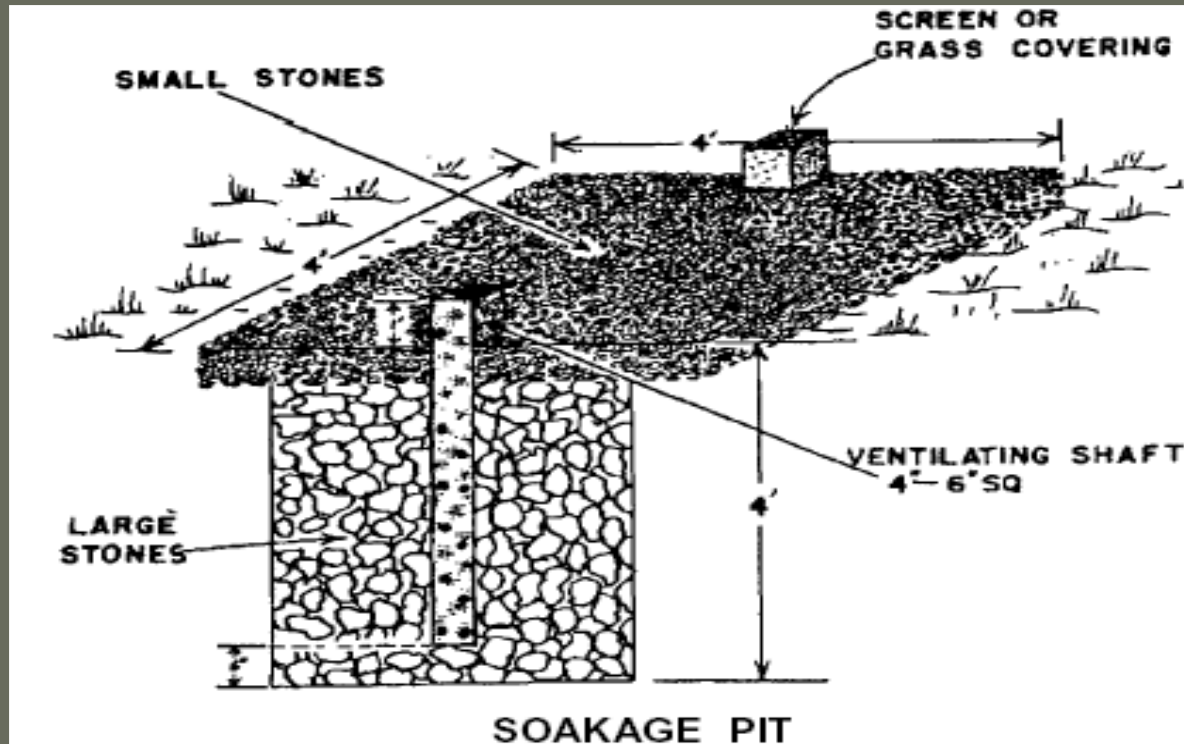




# LIQUID WASTE DISPOSAL DEVICES

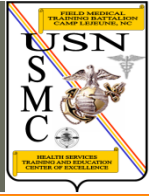
# LIQUID WASTE DEVICES

- SOAKAGE PIT (4' x 4' x 4')
  - Built the same as Urine Soakage Pits (without tubes)
  - 1 pit can accommodate 200 men





# LIQUID WASTE DEVICES

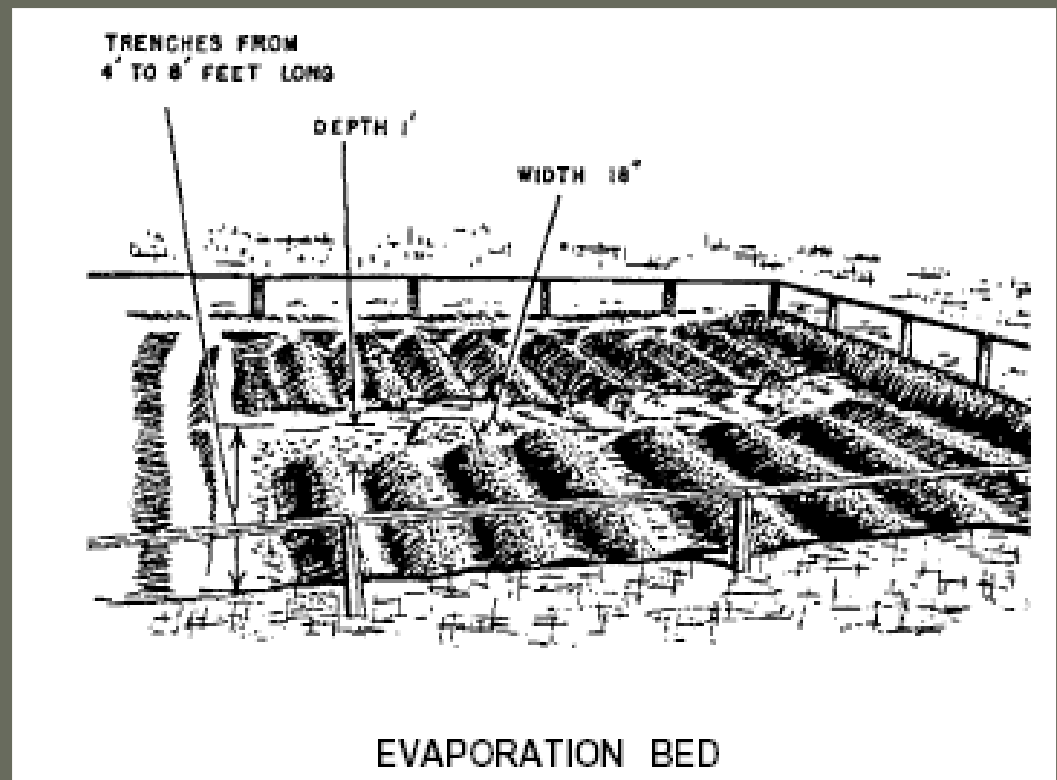


SOAKAGE PITS

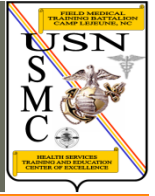
Kandahar Airport

# LIQUID WASTE DEVICES

- EVAPORATION BEDS
  - Used to dispose of kitchen waste when Soakage pits are impractical
  - Used in hot, dry climates where ground is too hard to dig pits



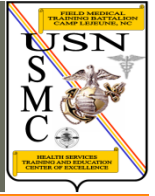




# GARBAGE DISPOSAL DEVICES



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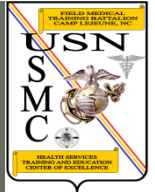
- Garbage Pit: (4' x 4' x 4')
  - Preferred method of garbage disposal for overnight stay
  - Suitable for 100 troops for 1 day
- Garbage Trench: (2'w x 4'd)
  - Adaptable for 2 or more days
  - Continuous trench can be dug



# Garbage / Trash PIT

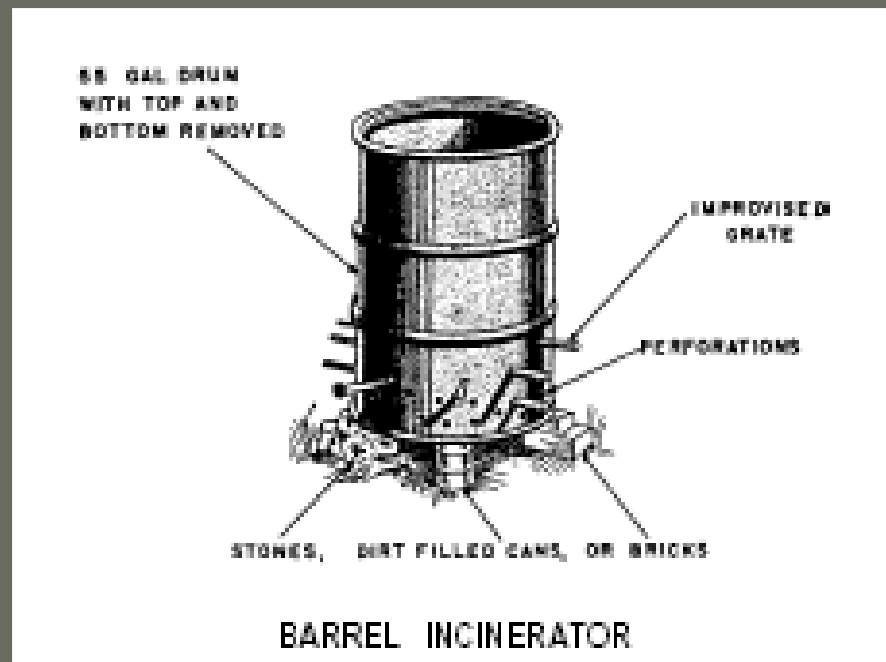


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# RUBBISH DISPOSAL DEVICES

- Garbage Pit: For short stays. Rubbish is buried with the garbage.
- INCINERATION DEVICES
  - Barrel incinerator

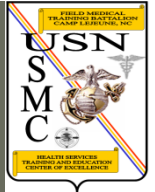




# GARBAGE PIT PLACEMENT



- DISTANCE
  - At least 100 FEET from mess area
  - At least 100 FEET from water source
- INCINERATORS
  - At least 50 YARDS downwind from camp





# FIELD WASTE DISPOSAL

