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**FIGURE 1
SAMPLE SOIL PROFILE RECORD**

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SOIL PROFILE RECORD

Inches	Feet		Description of Soil
0	0		Silty Loam
12	1		Silty Clay
24	2		Sandy Clay
36	3		
48	4		
60	5		Sand
72	6		
84	7		Bedrock or Water Table
96	8		

COMMENTS:

Soil Profile completed by: _____ Date: _____
(Signature)

TABLE 1
TEXTURAL PROPERTIES OF SOILS

Feeling and Appearance

Soil Class	Dry Soil	Moist Soil
Sand	Loose, single grains which feel gritty. Squeezed in the hand, the soil mass falls apart when the pressure is released.	Squeezed in the hand, it forms a cast which crumbles when touched. Does not form a ribbon between thumb and forefinger.
Sand Loam	Aggregates easily crushed; very faint velvety feeling initially but with continued rubbing the gritty feeling of sand soon dominates.	Forms a cast which bears careful handling without breaking. Does not form a ribbon between thumb and forefinger.
Loam	Aggregates are crushed under moderate pressure; clods can be quite firm. When pulverized, loam has velvety feel that becomes gritty with continued rubbing. Casts bear careful handling.	Cast can be handled quite freely without breaking. Very slight tendency to ribbon between thumb and forefinger. Rubbed surface is rough.
Silt Loam	Aggregates are firm but may be crushed under moderate pressure. Clods are firm to hard. Smooth, flour-like feel dominates when soil is pulverized.	Cast can freely handled without breaking. Slight tendency to ribbon between thumb and forefinger. Rubbed surface has a broken or rippled appearance.
Clay Loam	Very firm aggregates and hard clods that strongly resist crushing by hand. When pulverized, the soil takes on a somewhat gritty feeling due to the harshness of the very small aggregates which persists.	Cast can bear much handling without breaking. Pinched between the thumb and forefinger, it forms a ribbon whose surface tends to feel slightly gritty when dampened and rubbed. Soil is plastic, sticky and puddles easily.
Clay	Aggregates are hard; clods are extremely hard and strongly resist crushing by hand. When pulverized, it has a grit-like texture due to the harshness of numerous very small aggregates which persist.	Casts can bear considerable handling without breaking. Forms a flexible ribbon between thumb and forefinger and retains its plasticity when elongated. Rubbed surface has a very smooth, satin feeling. Sticky when wet and easily puddled.

Table 2
MINIMUM HORIZONTAL DISTANCE REQUIREMENTS IN FEET

Utilizing Aerosol Methods	100	10	50	125	10	-	25	10	10
Seepage Pit	100	50	25	20	25	10	50	25	10
Absorption Trench, Seepage Bed, Sand Filter, or Sub-Surface Dispersal System	100	25	25	20	25	10	50	25	10
Unlined Sand Filter in Soil with a Percolation Rate Slower than 60 Minute Per Inch	100	25	25	15	10	10	25	15	10
Unlined or Partially Lined Evapotranspiration System, or Surface Disposal System other than Aerosol	100	25	25	15	10	10	25	15	10
Lined Sand Filter	100	10	25	15	10	10	25	10	10
Lined Evapotranspiration Field	100	10	25	15	10	10	25	10	10
Vault Privy or Vault	50	10	25	15	10	10	25	10	-
Sanitary Privy	100	25	25	20	10	10	50	25	10
Septic Tanks, Treatment Plants, Dosing Tanks or Effluent Lines	50	10	25	10	25	10	50	10	-
Building Sewer	50	10	25	-	-	10	50	10	-
Wastewater Lagoon	100	25	25	100	100	10	25	25	10
	Springs, Private Wells, Private Well Suction Lines	Potable Water Supply Lines	Potable Water Supply Cistern	Dwelling, Occupied Building	Property Lines	Subsoil Drains	Lakes, Water Courses, Irrigation Ditches, or Streams	Dry Gulch	Septic Tanks

For the repair of an existing system where the size of the lot precludes adherence to these distances, the repaired facility shall not be closer to the physical features than the existing facilities, but must comply with K.A.R. Article 5 as authorized by K.S.A. 65-171D.

TABLE 3

QUANTITIES OF WASTEWATER

TYPE OF ESTABLISHMENT	GALLONS/PERSON/DAY (Average) (Unless Otherwise Stated)
<u>Residential</u>	
Hotels & Motels without private baths	50
& Motels with private baths	60
Multiple family dwellings or apartments	75
Rooming houses.....	50
Single family dwellings	75
<u>Commercial & Miscellaneous</u>	
Airline Catering	3 gal/meal served
Airports (not incl. food)	5 gal/passenger
Airports	10 gal/employee/day
Bus service areas (not incl. food).....	5
Country clubs (not incl. food).....	30
Day workers at offices	15
Drive-in theaters (not incl. food)	10 gal/space/day
Factories and plants (excl. of industrial waste).....	35
Laundries, self-service	400 gal/washer/day
Food service establishments(toilet and kitchen wastes)	10 gal/patron/day
Food service establishments (kitchen wastes)	3 gal/meal/served
Food service establishments (with paper service)5 gal/meal served
Additional for bars & cocktail lounges.....	2
Movie theaters, churches (not incl. food)	5 gal/seat/day
Stores.....	400
gal/public/toilet/day	
Work or construction camps (semipermanent) with flush toilets	50
Work or construction camps (semipermanent) without flush toilets	35
Travel trailer parks with individual water & sewage hook-up	100 gal/unit/day
Travel trailer parks without individual water & sewage hook-up	50 gal/unit/day
<u>Institutional</u>	
Hospitals	250 gal/bed area/day
Institutions other than hospitals	125 gal/bed area/day
Mobile home parks	75
Schools, boarding.....	100
Schools, day (without cafeteria, gym or showers).....	15
Schools, day (with cafeteria, but not gym or showers).....	20
Schools, day (with cafeteria, gym and showers).....	25

Recreational & Seasonal

Camps, day (no meals served)	15
Camps, luxury resort	125
Camps, resort (night & day) with limited plumbing	50
Camps, tourist, trailer, campground	100 gal/unit/day
Cottages and small dwellings (seasonal occupancy)	50

Country club

Shower	500 gal/fixture/day
Bath	300 gal/fixture/day
Lavatory	100 gal/fixture/day
Toilet	150 gal/fixture/day
Urinal	100 gal/fixture/day
Sink	50 gal/fixture/day

Public park (during hours when park is open)

Flush toilet	36 gal/fixture/hr.
Urinal	10 gal/fixture/hr.
Shower	100 gal/fixture/hr.
Faucet	15 gal/fixture/hr.
Swimming pools and bathhouses	10

Separate Flow-Residential Use

Bath/shower	14.7
Dishwasher	1.8
Kitchen sink	4.4
Additional for garbage grinder	1.4
Laundry washer	19.5
Lavatory	8.4
Water closet	24.8
TOTAL	75.0