



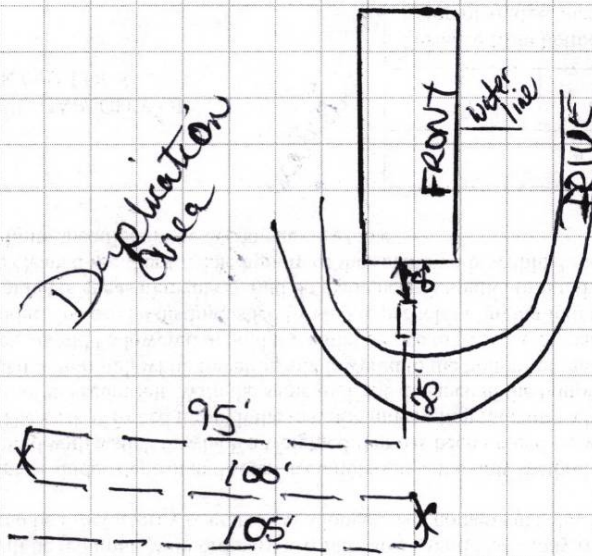
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
CERTIFICATE OF COMPLETION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

Issued to: Epperly, Pam
Owner, Developer, Contractor, Installer, Etc.

Location: 886 Old Harrison Hwy

Type of system
 1. Conventional
 2. Low Pressure Pipe
 3. Mound
 4. Lagoon
 5. Large Diameter Gravelless Pipe
(a) Sand backfill required Yes () No
 6. Other CRB 1000 Septic Tank
(type) (volume)
 Estimated Absorption Rate 45
(minutes per inch)
 New Installation Repair Other
 Installed by: owner

Total: 300'
 LDFP



* Construct Berm to control surface water when system is covered.

Construction Approved By: Natmi Kline ESTII 6-17-96
(Name and Title) (date)

SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rises to the surface and form scum.

The bacteria present in a tank are able to thrive in the absence of oxygen. Such decomposition in the absence of air is called "septic," which led to the naming of the tank. Solids and scum are digested and reduced to a smaller volume by the bacteria in the tank. However, a residue of sludge remains which must be stored during the interval between tank and cleanings.

The partially treated sewage, or effluent, flowing from the tank is still septic and contains large numbers of harmful bacteria and organic matter in a finely divided state or in solution. Foul odors, unsightly conditions and health hazards will develop if this effluent is ponded on the surface of the ground or carried away in open ditches. Final disposal of the effluent in a subsurface soil absorption system or filter is necessary to avoid these problems.

LOCATION

To facilitate inspection and maintenance, it is imperative that the homeowner knows the location of all parts of the disposal system. Such information may be obtained from the local health authority. Details and accurate measurements including the location of the tank, pumps, underground piping, and the absorption system should be shown on a sketch for future reference.

Then local health authority should be consulted to determine the minimum requirements relating to distance between disposal systems and water supply facilities.

MAINTENANCE

The frequency of cleaning depends on the size of the septic tank and the number of people it serves. When a garbage grinder is used, more frequent cleaning will be required. With ordinary use and care, a septic tank may require cleaning ever 2 or 3 years. However in many cases septic tanks can be satisfactorily operated even longer. The homeowner should determine for himself when his tank needs cleaning.

Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank need to be cleaned.

Scum can be measured with a stick to which a weighted flap has been hinged, or with any device that can be used to feel out the bottom of the scum mat. The stick if forced through the mat, the hinged flap falls into a horizontal position, and the stick is raised until resistance from the bottom of the scum felt. With the same tool, the distance to the bottom of the outlet device can be found.

A long stick wrapped with rough white toweling and lowered to the bottom of the tank will show the depth of sludge and the liquid depth of the tank. The stick should be lowered behind the outlet device to avoid scum particles. After several minutes, if the stick is carefully removed, the sludge line can be distinguished by sludge particles clinging into the toweling.

In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

LIQUID CAPACITY OF TANK GALLONS	LIQUID DEPTH		
	3 feet	4 feet	5 feet
	Distance from bottom of outlet device to top of sludge, inches.		
750	6	10	13
900	4	7	10
1,000	4	6	8

Do not allow any person who does not have a health department permit to pump your septic tank. Septic tanks are usually cleaned by companies who make this operation a business. The homeowner should check with the local health department for the names of reputable companies in the area.

There are no known chemicals, yeasts or other substance capable of eliminating or reducing the solids in a septic tank so that cleaning is unnecessary. The use of such product is not necessary for the proper operation of a septic tank.

Septic tanks and absorption systems frequently are damaged by heavy trucks or equipment moving over them. Reference to the location sketch of the system will be found helpful in directing heavy vehicles away from the critical areas. If there is no way to avoid crossing a sewer line, cast iron should be used under the crossing.

The roots of trees and shrubbery may enter the tile lines and clog them completely. When this occurs, the roots can be removed only digging up and cleaning the tile line.

Neglect of the septic tank is the most common cause of damage to soil absorption systems. When the tank is not cleaned, solids build up and are carried over into the absorption system causing clogging of the soil. When this happens the absorption system must be relocated and rebuilt.

Septic tank form

afternoon-owner

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF GROUND WATER PROTECTION
PERMIT FOR CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

Issued to: Epperly, Pam
Owner, Developer, Contractor, Installer, Etc.

Location: 886 Old Harriman Hwy

Installation:
 1. New Installation
 2. Repair to Existing System

Establishment:
 1. Residential: # Bedrooms 3
 2. Other: _____ (specify) _____
 Gal/Day _____

Evaluation Based Upon:
 1. Soil typing by Soil Scientist
 a. General
 b. High Intensity
 c. Extra High Intensity
 2. Soil Percolation Test
 3. Environmental Specialist
 Estimated Absorption Rate: 45 MPI

Approval based upon:
 Statute No. T.C.A. 68-221-403
 (c) Percolation test
 (d) Grandfather clause. Current standards except those specified
 (f) 12" (karst) and 6" (non-karst) buffer required

Type of System:
 1. Conventional
 2. Low Pressure Pipe
 3. Mound
 4. Lagoon
 5. Large Diameter Graveless Pipe 10"
 a. Sand backfill required
 6. Other _____

This system shall consist of a two compartment septic tank holding 900-1000 gallons, with 300 linear feet in 3-4 trenches, 36 inches wide and 24-36 inches deep. (Depth of gravel: 12 inches) or 18" for

Also required:
 1. Soil Improvement Practice (SIP)
 2. Flow Diversion Valve
 3. Sewage Pump
 4. Other: _____

All installers of subsurface sewage disposal systems must hold a valid annual license from the Tennessee Department of Environment and Conservation.

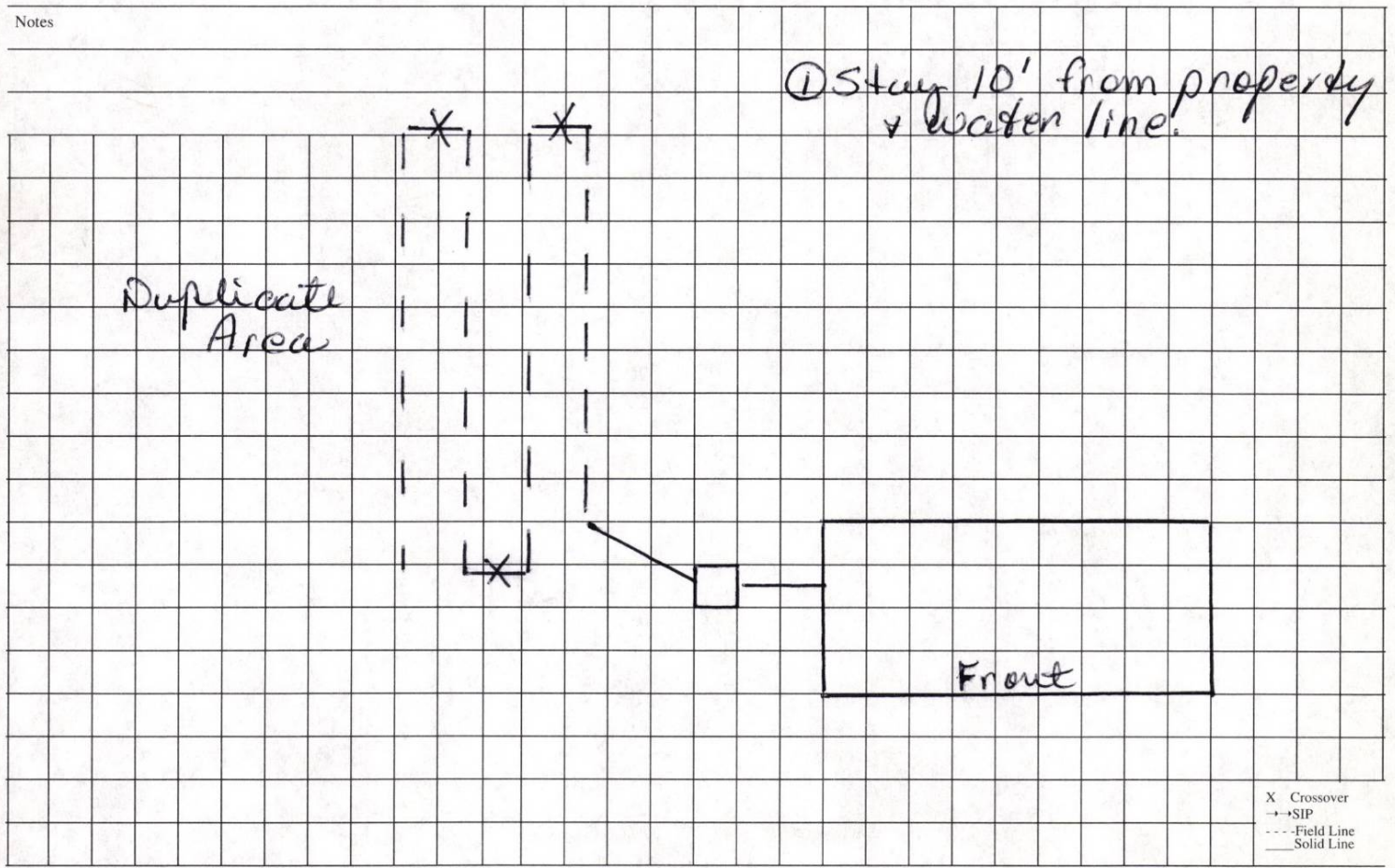
The recipient of this permit agrees to construct or have constructed the above described system in accordance with T.C.A. 68-221-401 et. seq. and The Regulations To Govern Subsurface Sewage Disposal Systems. If any part of the system is covered before being inspected and approved, it shall be uncovered by the recipient of the permit at the direction of personnel of the Department of Environment and Conservation. Any cutting, filling or alterations of the soil conditions on the aforementioned property after this day may render this approval null and void.

[Signature] Date 3-28-96
 (Signature of Recipient)

Issued at Kingsport Tennessee, in Roane County

By Jim Wrigg ES III Date 3/28/96
 (Name and Title) (Date of Issue)

This permit is valid for 3 years from date of issue.



This is a permit to construct and is not intended to imply approval of any work proposed or completed on this lot.



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
APPLICATION FOR GROUND WATER PROTECTION SERVICES**

1. SERVICE REQUESTED: (check service)	APPLICANT COMPLETE QUESTIONS:	FEES DUE	PTBMS CODES V689 Code Supp/Code	
<input checked="" type="checkbox"/> Septic System Construction Permit				
_____ Dwelling	2, 3, 4, 7, 8, 9	\$ 100.00	78064	Yes
_____ Commercial: gpd	2, 3, 4, 7, 8, 9	\$ _____	78064	Yes
_____ System Modification	2, 3, 4, 7, 8, 9	\$ _____	78064	Yes
_____ Repair	2, 3, 4, 7, 8, 9	\$ _____	78032	
_____ Inspection Letter	2, 3, 5, 7, 8, 9	\$ _____	78030	
_____ Water Sample				
_____ Total Coliform	2, 3, 6, 7, 8, 9	\$ _____	78036	Yes
_____ Fecal Coliform	2, 3, 6, 7, 8, 9	\$ _____	78038	Yes
_____ Alternative System Permit*		\$ _____	78068	
_____ Large Conventional System Plan Review*		\$ _____	78099	
_____ Large Alternative System Plan Review*		\$ _____	78099	
_____ Experimental System Plan Review*		\$ _____	78072	
_____ Subdivision Evaluation: Lots: _____*		\$ _____		
_____ Soil Mapping: Type _____ Acres _____*		\$ _____		Yes
_____ Installer Permit: Type(s) _____*		\$ _____	78026	Yes
_____ Pumper Permit*		\$ _____	78028	
_____ Plat Approval — Individual Lot.....		\$ _____	78029	
_____ Domestic Septage Disposal Site Permit		\$ _____	78031	

*Applicant may review these service requests with Environmental Specialist prior to processing application.

2. **LANDOWNER:** Mark & Pam Epperly **APPLICANT:** S.P. Collier Jr. **ORIGINAL OWNER:** _____
 Names: _____ Name: _____ Name: _____
 Address: 836 Old Harriman Hwy Address: same
Oliver Springs, Tenn.
 Day Phone: 435-3315 Day Phone: _____

3. **LOCATION OF LOT OR SITE:** a) In a subdivision? no b) Name: _____ Lot # _____
 b) Non-Subdivision _____ Give specific directions and address to the lot or site: _____

4. **FOR SSDS PERMIT ONLY:** a) Size of lot _____ b) Number of Bedrooms 3
 c) How many occupants? 2 d) Excavated Basement? Yes _____ No _____
 e) Basement Plumbing Fixtures? Yes _____ No
 f) Amount of water used monthly (gallons) _____
 g) Water Supply: Public Well _____ Spring _____
 h) Is the lot staked? _____ If not, date it will be staked: _____ graded for mobile home
 Is the house staked? _____ If not, date it will be staked: _____
 i) Installer, if known: _____

5. **FOR INSPECTION LETTER ONLY:** Will pick up _____ Please mail _____
 a) Age of house _____ b) Is house vacant? _____ How long? _____
 c) Original sewage system inspected by Health Department? _____
 d) Date of previous repairs _____ Inspected _____
 e) Is waste water "backing up" into plumbing fixtures? _____ Surfacing on the ground? _____
 f) All waste water including washing machines routed into septic tank _____

6. **FOR WATER SAMPLE ONLY:** a) Source of Supply: Spring _____ Well _____
 b) Is there an outside faucet? _____ c) Is the source chlorinated? _____
 d) For Wells: Is the casing 6" above the ground? _____ Is a sanitary seal on the casing? _____

7. MAKE A ROUGH SKETCH ON BACK OF THIS PAGE SHOWING DIRECTIONS TO PROPERTY, PROPERTY LINES, HOUSE SITE, WELL LOCATION, SPRING LOCATION, PLANNED DRIVEWAY AND UTILITIES.

8. ALL FEES DUE IN ADVANCE AND ARE NON-REFUNDABLE (except upon appeal). See Fee Schedule on reserve. Make check payable to: **TREASURER, STATE OF TENNESSEE**

9. I certify that the above information is true and correct to the best of my knowledge, and that I have been authorized by the above named landowner to submit this Application for Environmental Services to the Division of Ground Water Protection.

DATE: 3-26-96 SIGNATURE: Pam Epperly AMOUNT PAID: \$ 100.00 RECEIPT NUMBER: 10721

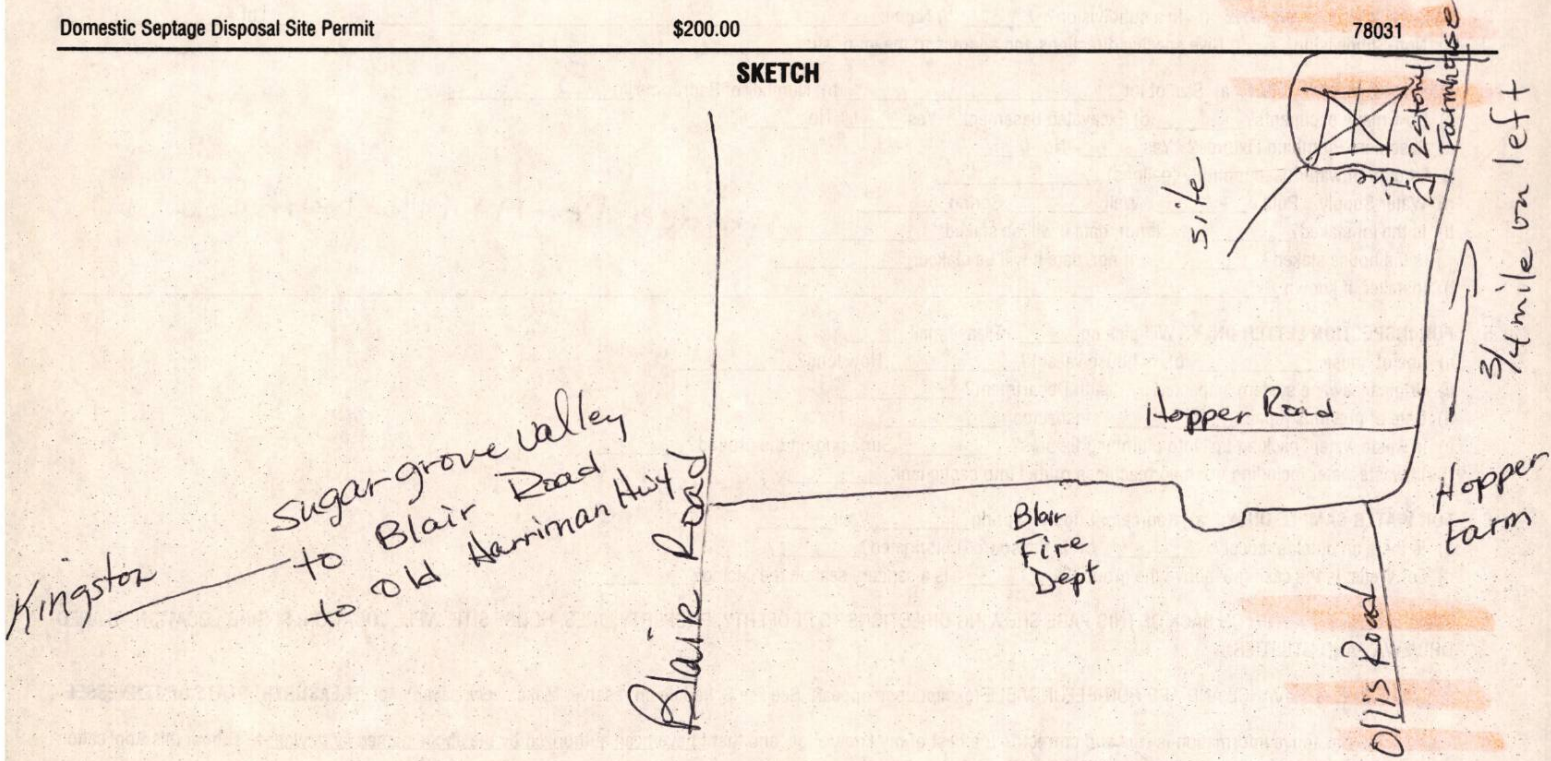
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FEE SCHEDULE

**PTBMIS
SUPP/CODE**

Evaluation for Conventional or LDGP Septic System Permit	\$100.00 up to 1000 gpd	
	\$ 50.00 for each additional 1000 gpd or portion thereof	78066
Repair	\$None	
Inspection Letter	\$100.00	
Subdivision Evaluation	\$ 20.00 per lot	
Water Samples:		
Total Coliform	\$ 25.00	78036P
Fecal Coliform	\$ 50.00	78036P
Soil Mapping:		
Low Intensity	\$ 65.00 up to 5 acres	78074
	\$ 10.00 per acre thereafter	78076
General Intensity	\$ 40.00 per acre — \$ 40.00 minimum	78078
High Intensity	\$ 65.00 per acre — \$ 65.00 minimum	78040
Extra High Intensity (Minimum is for each separate acre or part of acre to be mapped)	\$ 100.00 per acre — \$100.00 minimum	78042
Alternative System Application Processing	\$150.00 up to 1000 gpd	
	\$ 75.00 for each additional 1000 gpm or portion thereof	78070
Large Conventional or Large Alternative Plan Review	\$300.00 per proposed system	
Experimental System Application Processing	\$250.00	
Pumper Permit	\$100.00	
Installer Permit	\$100.00 for conventional & LDGP	
	\$ 50.00 for each alternative system	78080
Plat Approval — Individual Lots	\$ 20.00 per lot	78029
Domestic Septage Disposal Site Permit	\$200.00	78031

SKETCH



Official Use:

File Search
 Absorption Rate _____ At Depth _____
 Percolation Rate _____ At Depth _____
 Other Requirements _____