

Appendix 1

**Commonwealth of Virginia
Application for a Sewage Disposal and/or Water Supply Permit**

Health Department ID# _____ (VDH Use)

Owner J. Robert Yeaman, III, Guardian of the
Est. of Katherine C. Doak Address Button, Yeaman & Assocs. P.C. (540) 825-0766
139 W. Davis Street
Culpeper, VA 22701

Agent T.A. Houston Address P.O. Box 891 Phone 825-6262
Culpeper, VA 22701

Directions to Property: East of 29 - 1 mile N. int. 29 & 644

Subdivision _____ Section _____ Block _____ Lot #3

Other Property Identification _____ Map Reference AB-23

Dimension/size of Lot/Property 15.626 Ac.

Residential Use Yes _____ No
Termite Treatment Yes _____ No
 Single Family _____ Multi-family
Number of bedrooms 3 Number of Units _____
Basement _____ Yes _____ No
Fixtures in Basement Yes _____ No

Proposed Sewage Disposal Method:
Onsite Sewage Disposal System: Septic Tank Drainfield _____ LPD _____ Mound _____ Other
Water Supply: _____ Public _____ New _____ Existing
 Private _____ New _____ Existing

Describe: CLASS III C

The property lines, building location and sewage disposal system site are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application and to perform quality assurance checks as necessary until the sewage disposal system has been constructed and approved.

J. Robert Yeaman, III, Gdn. 3/10/04
Signature of Owner/Agent Date

Appendix 2

Soil Summary Report

GENERAL INFORMATION

Date 8-2-04 Submitted to CULPEPER COUNTY Health Department
 Applicant KATHERINE DOAK ESTATE Telephone No. 825-0766
 Address 410 BUTTERN. VERMAN DR. 139W. DAVIS ST. CULPETER, VA 22701
 Owner SAME Address _____
 Location E. SIDE LIS 29 1MI N. INT 29+644
 Tax Map AB-23 Subdivision _____
 Block/Section _____ Lot # 3

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No
 Describe SHOULDER
2. Slope 6-8 %
3. Depth to rock or impervious strata: Max. _____ Min. _____ None
4. Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches
5. Free water present No Yes _____ range in inches
6. Soil percolation rate estimated Yes No Texture group I II IV
 Estimated rate 50 min/inch
7. Permeability test performed Yes No

If yes, note type of test performed and attach

- Site Approved: Drainfield to be placed at 24" depth at site designated on permit.
- Site Disapproved:

Reasons for rejection:

1. Position in landscape subject to flooding or periodic saturation.
 2. Insufficient depth of suitable soil over hard rock.
 3. Insufficient depth of suitable soil to seasonal water table.
 4. Rates of absorption too slow.
 5. Insufficient area of acceptable soil for required drainfield, and/or Reverse Area.
 6. Proposed system too close to well.
 7. Other Specify _____

(attach additional pages if necessary)

SOIL PROFILE DESCRIPTION REPORT

DATE OF EVALUATION		11-24-03		DOAK ESTATE LOT #3	
HOLE#	HORIZON	DEPTH	DESCRIPTION	TEXTURE	
P-1	A	0-5	7.5 YR 4/4 , SANDY LOAM , MICA, ROOTS, QUARTZ	III	
	Bt	5-12	5YR5/6, SILTY CLAY LOAM, MICA, FRIABLE, ROOTS	III	
	B	12-28	2.5YR4/8, SILTY CLAY LOAM, BLOCKY FRIABLE	III	
	B-C	28-58	2."5YR4/8 5/8, MULTI-COLORED SILT LOAM, MICA BLOCKY	III	
P-2	A	0-4	7.5 YR 4/4 , SANDY LOAM , MICA, ROOTS, QUARTZ	III	
	Bt	4-12	5YR5/8, SILT LOAM, ROOTS, QUARTZ, BLOCKY	III	
	B	12-30	5YR, 5/8, 7.5YR5/6 SILTY CLAY LOAM, FRIABLE BLOCKY, MICA	III	
	B-C	30-50	2."5YR4/8 5/8, MULTI-COLORED SILT LOAM, MICA BLOCKY	III	
P-3	A	0-3	7.5 YR 4/4 , SANDY LOAM , MICA, ROOTS, QUARTZ	III	
	Bt	3-8	5YR5/6 SILTY CLAY LOAM , MICA, BLOCKY, FRIABLE	III	
	B	8-30	5YR 5/8, 5/6, 6/6 SILTY CLAY LOAM, MICA BLOCKY, MULTI-COLORED	III	
	B-C	30-50	2."5YR4/8 5/8, MULTI-COLORED SILT LOAM, MICA BLOCKY	III	
P-4	A	0-4	7.5YR4/8 SILT LOAM, MICA , ROOTS, BLOCKY	III	
	Bt	4-12	2.5YR4/8 SILT LOAM, BLOCKY , MICA	III	
	B	12-30	10YR4/8 MICACEOUS, SILTY CLAY LOAM, BLOCKY, FRIABLE	III	
	B-C	30-52	2.5YR 4/8, 5/2 SILT LOAM SOFT SAPROLITE, BLOCKY FRIABLE	III	
P-5	A	0-4	7.5YR4/8 SILT LOAM, MICA , ROOTS, BLOCKY	III	
	B	4-18	10YR5/6 MICACEOUS, SILTY CLAY LOAM,	III	
	B-C	18-50	10YR5/4, 5/6, 2.5YR 5/6 FINE SANDY LOAM SAPROLITE MICACEOUS, BLOCKY	II	
P-6	A	0-6	7.5YR4/8 SILT LOAM, MICA , ROOTS, BLOCKY	III	
	B	6-20	10YR5/6 MICACEOUS, SILTY CLAY LOAM,	III	
	B-C	20-54	10YR5/4, 5/6, 2.5YR 5/6 FINE SANDY LOAM SAPROLITE MICACEOUS, BLOCKY	II	

AND IN OWNERS,

ROD SET

DRAINFIELD SITE 3 (SEE DETAIL)

T.M. 48, PCL. 23
43.383 AC.

PROPOSED HOUSE SITE

PROPOSED WELL

LOT 3
15.626 AC.

DRAIN DETAIL
(1"=1')

DOAK EST
LOT # 3
PAGE 7

35.28'

45.01'

S 50°55'02" W

679.73'

75' B.R.L.

50' B.R.L.

1058.30'

49°40'28" E

2004

ROD SET

S 40°19'32" E 792.31'

ROD SET

3A '02

242.88'

DRAINFIELD SITE 2

LOT 2
12.463 AC.

PROPOSED HOUSE SITE

PROPOSED WELL

PROPERTY LINE HEREBY VACATED

75' B.R.L.

50' B.R.L.

678.90'

2197.83'=TOTAL

N/F
G.G. CARPENTER
T.M. 48, PCL. 24
D.B.174, PG. 25

ROD SET

N 40°19'32" W 807.03'

ROD SET

17
2. 22
3. 445

679.06'

APPROVED 680.31 DRAINFIELD SITE

PROPOSED HOUSE SITE

PROPOSED WELL

LOT 1
17.829 AC.

POND

50' B.R.L.

460.62'

2754.20'=TOTAL

ROD FND.

30' B.R.L. 360.23'

ROD FND.

S 37°01'23" E

40' B.R.L.

50' B.R.L.

275.01'

N 49°23'35"

GOV

Appendix 5
Sewage Disposal System Construction Specifications

General Information

New Repair Expanded
 Owner DOAK ESTATE Telephone 825-0766
 Address 10 BUTTON Y EAMAN ASSIC 139 W. DAVIS ST. CULPREDER 22701
 For a Type I Sewage disposal system which is to be constructed on/at _____
 Subdivision DOAK EST Section _____ Block _____ Lot # 3
 Actual or estimated water use 450

DESIGN	NOTES
Water supply, existing: (describe) To be installed: class <u>III-C</u> cased <u>20FT</u> grouted <u>20FT</u>	
Building sewer: <u>4</u> I.D. PVC 40, or equivalent. Slope 1.25" per 10' (minimum). <input type="checkbox"/> Other	
Septic tank: Capacity <u>1000</u> gals. (minimum). <input type="checkbox"/> Other	
Inlet-outlet structure: PVC 40, 4" tees or equivalent. <input type="checkbox"/> Other	
Pump and pump station: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> describe and show design. If yes:	
Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. Crush strength or equivalent. <input type="checkbox"/> Other	
Distribution box: Precast concrete with <u>10</u> ports. <input type="checkbox"/> Other	
Header lines: Material: 4" I.D. 1500 lb. Crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other	
Percolation lines: Gravity 4" plastic 1000 lb. Per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input type="checkbox"/> Other	
Absorption trenches: Square ft. required <u>1128</u> ; depth from ground surface to bottom of trench <u>7A"</u> ; trench width <u>3 FT.</u> Depth of aggregate <u>13"</u> ; Trench length <u>94'</u> ; Number of trenches <u>4</u>	

Appendix 6
Abbreviated Design Form

DOAK ESTATE

LOT # 3

For use with gravity and pump drainfields, enhanced flow systems and low pressure distribution systems when applying for a certification letter or subdivision approval.

Design Basis

- A. Estimated Percolation Rate 50 MPI
- B. Trench bottom square feet required per bedroom (from Table 4.6 based on Gravity LPD) 376
- C. Number of bedrooms 3

Area calculations

- D. Length of trench 94 FT Length of available area 200 FT
- E. Width of trench 3 FT.
- F. Number of trenches 4
- G. Center-to-center spacing 9 FT
- H. Width required 30 FT Width of available area 50 FT
G(F-1) + E
- I. Total square footage required (line B times line C) 1128
- J. Square footage in design (D*E*F) 1128
- K. Is a reserve area required? Yes No

Certification Statement

DOAK ESTATE
LOT # 3

County: CULPEPER Date: 8-2-04

Property Identification: TM 48-23

Submitted by: T.A. HOUSTON

This is to certify according to §32.1-163.5 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Virginia Department of Health. I recommend a CERTIFICATION LETTER¹ be ISSUED².

AOSE [Signature] Date: 8/2/04

Soil Consultant _____ Date: _____

¹ This blank must be filled in with one of the following terms: 'permit', 'certification letter', or 'subdivision approval'.
² This blank must be filled in either the term 'approved' or 'denied'.

If the submission contains a certification by a professional engineer in consultation with an AOSE, the following statement shall be signed and sealed:

I hereby certify that the evaluations and designs contained herein (refer to subdivision, lot, etc.) were conducted in accordance with the *Sewage Handling and Disposal Regulations* (12 VAC 5-610-10 et seq., the "*Regulations*") and the policies of the Virginia Department of Health for implementation of those *Regulations*. Furthermore, I certify that the evaluations and designs comply with the minimum requirements of the *Regulations*.

I recommend a _____¹ be _____².

Licensed PE: _____ Date: _____

Seal

¹ This blank must be filled in with one of the following terms: 'permit', 'certification letter', or 'subdivision approval'.
² This blank must be filled in either the term 'approved' or 'denied'.