

ATTN David Holliday

GMP #100 Interim Policy for AOSEs, PEs, and Other Consultants
July 1/1999

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LITHIA FRINGER RENS
BOTETWORT COUNTY
2/23/2006
BAILEY

Appendix 2

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Soil Summary Report

GENERAL INFORMATION

Date 3/21/2006 Submitted to BOTETWORT COUNTY Health Department

Applicant _____ Telephone No. _____

Address _____

Owner BRAAY BAILEY Address _____

Location US RT 11 TO RIGHT HANDSIDE RD. (TOWARD BUCHANAN FROM TRUSTVILLE)
TO RIGHT LITHIA RD. TO LEFT FRINGER RD. APPX. 1/4 MI TO SOIL TRAIL

Tax Map _____ Subdivision _____

Block/Section _____ Lot _____
ON LEFT. APPX 1000 FT. TO SITE ON HILLSIDE ON LEFT.

SOIL INFORMATION SUMMARY

- Position in landscape satisfactory Yes No
Describe UPLAND SIDESLOPE FROM SADDLE AND RIDGE AREAS
- Slope 29 %
- Depth to rock or impervious strata: Max. 72" Min. 44" None _____ (44" IN RESOLVE AREA)
- Depth to seasonal water table (gray mottling or gray color) No Yes _____ inches
- Free water present No Yes _____ range in inches
- Soil percolation rate estimated Yes No Texture group I II III IV
Estimated rate 60 min/inch
- Permeability test performed Yes No

If yes, note type of test performed and attach

Site Approved: Drainfield to be placed at 26" depth at site designated on permit.

Site Disapproved:

Reasons for rejection:

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

Date of Evaluation 3 FEBRUARY 2006
FLANDER & LITNER ROADS
2/03/2006
BOZEMAN COUNTY
BAILEY

Profile Description
SOIL EVALUATION REPORT

Health Department
 Identification No. _____

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features (i.e., sewage disposal systems, wells, etc., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

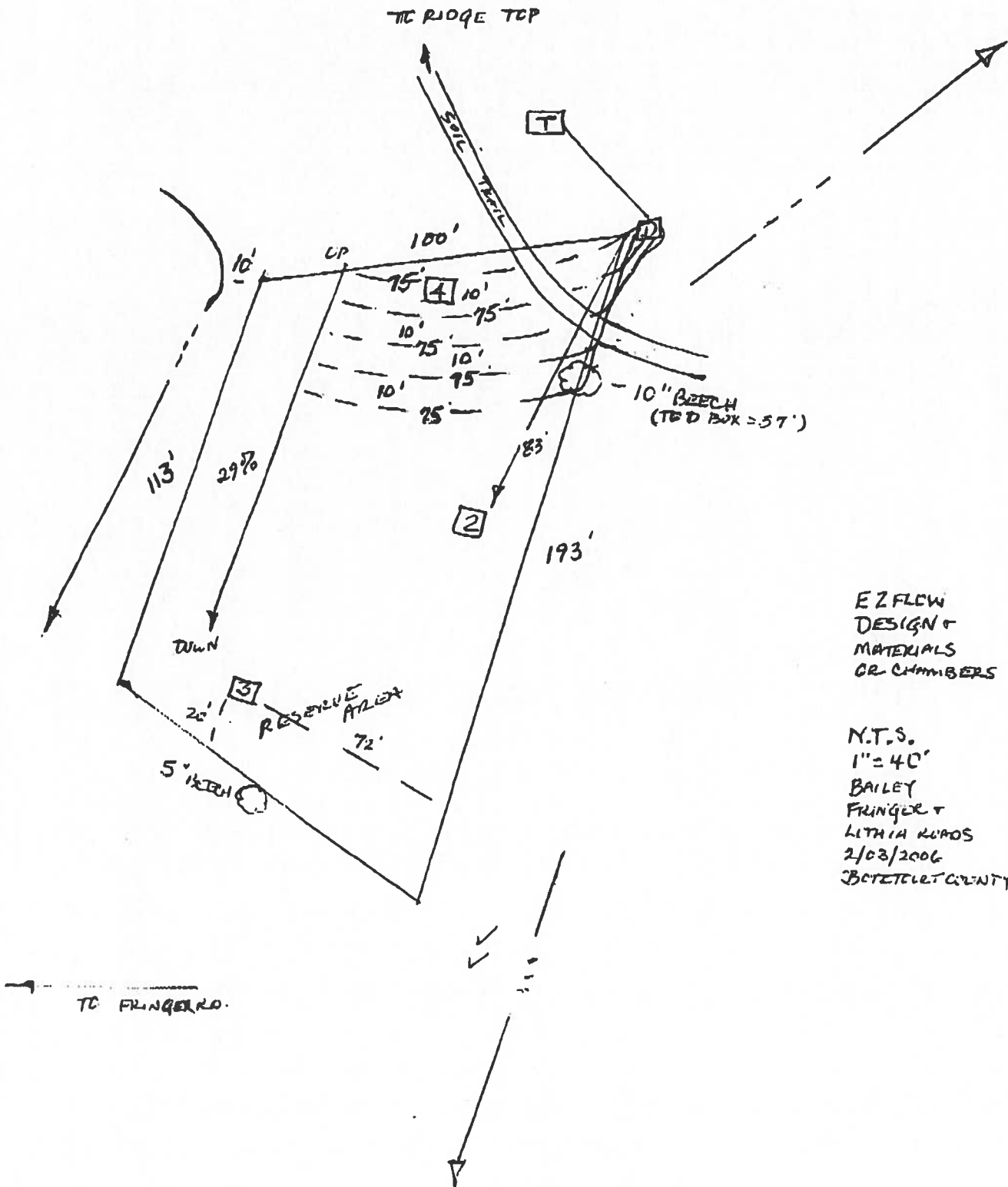
See application sketch

See construction permit

See sketch on reverse side or page attached to this form.

Profile #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
PIT 2	A _p	0-1	VERY DARK GRAYISH BROWN (10YR 4/2) LOAM; MANY FINE AND MEDIUM AND FEW COARSE ROOTS	II
	E	1-19	YELLOWISH BROWN (10YR 5/4) HEAVY LOAM; COMMON FINE AND MEDIUM AND FEW COARSE ROOTS.	II
	B _{1t}	19-39	YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE;	III
	C	39-51	FEW FINE AND MEDIUM ROOTS. YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; INTERLARDER HIGHLY WEATHERED ROCK	III
PIT 3	E	0-7	PAGE BROWN (10YR 6/3) HEAVY LOAM; COMMON FINE AND MEDIUM AND COARSE ROOTS	II
	B _{2t}	7-19	YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; COMMON FINE AND MEDIUM ROOTS	III
	B _{3t}	19-34	RED (2.5YR 4/6) CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; FEW FINE ROOTS.	III
	C	34-44	RED (2.5YR 4/6) CLAY LOAM AND SHALY LIGHT CLAY LOAM; FEW FINE ROOTS	III
	R	44-58	HIGHLY WEATHERED ROCK WITH INTERLARDER SOIL	
PIT 4	E	0-3	PAGE BROWN (10YR 6/3) HEAVY LOAM; COMMON FINE AND MEDIUM AND COARSE ROOTS	II
	B _{1t}	3-14	YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; MANY FINE AND COMMON MEDIUM AND FEW COARSE ROOTS	III
	B _{2t}	14-37	RED (2.5YR 4/6) LIGHT CLAY LOAM; MODERATE MEDIUM SUBANGULAR BLOCKY STRUCTURE; COMMON FINE ROOTS	III
	B _{3t}	37-42	YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; FEW FINE ROOTS	III
	C	42-77	STRONG BROWN (7.5YR 5/6) AND YELLOWISH RED (5YR 5/6) LIGHT CLAY LOAM; HIGHLY WEATHERED ROCK STRUCTURE AND HIGHLY WEATHERED ROCK CALERA; FEW FINE ROOTS	III

Remarks



EZ FLOW
 DESIGN +
 MATERIALS
 CR. CHAMBERS

N.T.S.
 1" = 40'
 BAILEY
 FRINGER +
 LITHIA KWAS
 2/03/2006
 BOYD COUNTY

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FRINGER RD +
LITHA COND
2/03/2006
BAILEY

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Appendix 5
Sewage Disposal System Construction Specifications
General Information

New Repair Expanded

Owner _____ Telephone _____

Address _____

For a Type I Sewage disposal system which is to be constructed on/at FRINGER RD. + LITHA RD.

Subdivision _____ Section _____ Block _____ Lot _____

Actual or estimated water use 600 gals/day

DESIGN

NOTES

Water supply, existing: (describe) _____
To be installed: class III-C cased 20' grouted 20'

Building sewer 4" I.D. PVC 40, or equivalent.
Slope 1.25" per 10' (minimum).
 Other

Septic tank: Capacity 1500 gals. (minimum. 1200 gals.)
 Other

Inlet-outlet structure:
PVC 40, 4" tees or equivalent.
 Other

Pump and pump station:
No Yes describe and show design.
If yes:

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. Crush strength or equivalent.
 Other

Distribution box:

Distribution box: Precast concrete with <u>6 (open)</u> ports. <input type="checkbox"/> Other _____	EZ FLOW OR (CHAMBERS) INFILTRATOR
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>1808</u> ; depth from ground surface to bottom of trench <u>26"</u> ; trench width <u>3'</u> Depth of aggregate <u>13"</u> ; Trench length <u>75'</u> ; Number of trenches <u>5</u>	EZ FLOW OR (CHAMBERS) INFILTRATOR

Revised 6/95

2/03/2006
FRINGEL RD +
LANTA ROAD
2/03/2006
BAILEY

Appendix 6
Abbreviated Design Form

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 60
- B. Trench bottom square feet required per bedroom (from Table 4.6 based on Gravity LPD) 452
- C. Number of bedrooms 4

Area calculations

- D. Length of trench 75' Length of available area 100'
- E. Width of trench 3'
- F. Number of trenches 5 *INFILTRATOR OR EZ FLOW*
- G. Center-to-center spacing 10'
- H. Width required 43' Width of available area 73'
 $G(F-1) + E$
- I. Total square footage required (line B times line C) 1808
- J. Square footage in design (D*E*F) 1875
- K. Is a reserve area required? yes No

BAILEY
LITHIA FRINGEL ROADS
BOTETOURT COUNTY
2/03/2006

Certification Statement

County: BOTETOURT Date: 3/21/2006

Property Identification: BAILEY - FRINGEL + LITHIA ROADS

Submitted by: SOIL SCIENTISTS, L.L.C.

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 SUBDIVISION APPROVAL be APPROVED².

AOSE Karen B. Scott PE Date: 3/21/2006

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 _____¹be _____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'.