

AUTHORIZED ONSITE SOIL EVALUATORS (AOSEs)
Jack McClelland/AOSE #098 (540) 948-7170 Tom Hogge/AOSE #240 (434) 985-2780

AOSE/PE Report for

Subdivision Approval

_____ 1 _____

Location of property: Lot 10 Section _____, Subdivision Fairhill Estates, Albemarle County
GPIN or Tax Map # _____
Latitude/Longitude _____

Applicant or Client and address:
David Mitchell/Southern Classic
Po Box 248
Crozet, VA 22932
Prepared by AOSE/PE (name and address):
Tom Hogge - AOSE 240
Po Box 418
Ruckersville, VA 22968

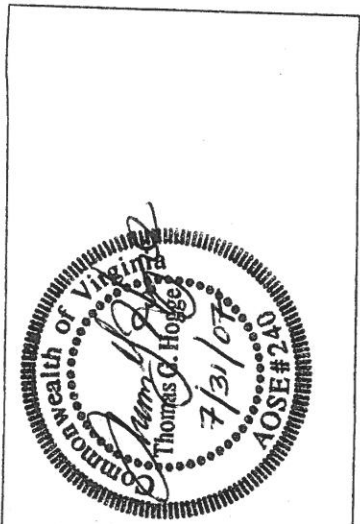
Date of Report: 7/31/07
Revision Date: _____, _____
AOSE/PE Job Number: _____ (optional)
Health Dept. ID. No.: _____

Contents/Index of this report:²
1-Cover
2- Soil Summary
345-Soil Descr.
6-Site Sketch
78-Abbrev. Design

Certification Statement(s)³

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations, and policies implemented by the Virginia Department of Health.

I recommend a Subdivision ⁴ be Approved ⁵
Approval



¹ Insert appropriate title: "Construction Permit", "Subdivision Approval", "Certification Letter"
² Examples include: "Soil Information Summary", "Soil Profile Descriptions", "Water Supply Design Specifications", "Primary/Reserve Design Specifications", "Construction Drawings", "Site Sketch", "Product Specification Sheet"
³ PE work is regulated by the Department of Professional and Occupational Regulation. This section is considered optional for PEs.
⁴ Fill in this blank with the appropriate term: "certification letter", "construction permit", or "subdivision approval"
⁵ Fill in this blank with the appropriate term: "approved", or "denied"



BLUE RIDGE SOIL CONSULTING, INC.

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 P.O. Box 418 Ruckersville, VA 22968



Soil Evaluation Report FAIRHILL ESTATES Lot 10 Albemarle County, VA

Owner:	David Mitchell c/o Southern Classic, Inc.		Phone:	(434) 823 - 7610
Mailing Address:	P.O. Box 248		Phone:	
	Crozet, VA 22932		Fax:	(434) 823 - 7645
Agent:	Blue Ridge Soil Consulting, Inc.		Phone:	(434) 985 - 2780
Mailing Address:	P.O. Box 418		Phone:	(540) 948 - 7170
	Ruckersville, VA 22968		Fax:	(434) 990 - 8367
Site Address:	Email:			
Directions to Property:	From Charlottesville, take Rt. 250 west past Rt. 250/Rt. 240 intersection. Property is on the right at Fairhill Lane			
Subdivision:	Fairhill Estates	Section:	Block:	Lot: 10
Tax Map:	Other Property Identification:		Dimension/Acreage of Property: 2.73 Acres	

Soil Information Summary

1. Position in landscape satisfactory? Yes No
 Describe: Sideslope

2. Slope: 18-19% (primary), 5-6 % (reserve)
 Max. 74"+
 (primary) Min. 72" (primary), 57" (reserve)
 60"+ (reserve)

3. Depth to Rock or impervious strata: No Yes range in inches

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 III IV
 No Estimated rate 50 min/inch

7. Permeability test performed Yes No

If yes, note type of test performed and attach

Soil Profile Descriptions
 Fairhill Estates
 Lot 10

Pit	Depth (in)	Horizon	Material Description	Soil Texture Group
1	0-10	Ap	10YR/4/3 Brown Loam/light Clay Loam	2/3
	10-20	Bt	2.5YR/4/8 Red medium Silty Clay Loam, massive structure, dense	3
	20-42	BC	2.5YR/5/8 Red medium Silty Clay Loam, slightly variegated with 5YR/5/8 Yellowish Red and 7.5YR/8/6 Reddish Yellow (parent), massive structure	3
	42-60	CB	5YR/5/8 Yellowish Red light Silty Clay Loam, variegated with 7.5YR/6/8 Reddish Yellow and 10YR/7/6 Yellow (parent), dense PIT TERMINATED AT 60"	3

2	0-8	Ap	10YR/4/3 Brown Loam/light Clay Loam	2/3
	8-19	Bt	2.5YR/4/8 Red medium Silty Clay Loam, SAB structure	3
	19-50	BC	2.5YR/5/8 Red medium Silty Clay Loam, slightly variegated with 5YR/5/8 Yellowish Red and 7.5YR/8/6 Reddish Yellow (parent), massive structure	3
	50-60	C	5YR/5/8 Yellowish Red light Silty Clay Loam, variegated with 7.5YR/6/8 Reddish Yellow and 10YR/7/6 Yellow (parent), dense PIT TERMINATED AT 60"	3



Soil Profile Descriptions, Continued

3	0-9	Ap	10YR/4/3 Brown Loam/light Clay Loam	2/3
	9-17	Bt	2.5YR/4/8 Red medium Silty Clay Loam, massive structure, dense	3
	17-42	BC	2.5YR/4/4 Reddish Brown medium Silty Clay Loam, variegated with 5YR/5/8 Yellowish Red and 10YR/6/6 Brownish Yellow (parent), massive structure	3
	42-60	CB	7.5YR/5/8 Strong Brown very light Silty Clay Loam/Silt Loam, variegated with 7.5YR/7/8 Reddish Yellow and 10YR/7/4 Very Pale Brown (parent), dense PIT TERMINATED AT 60"	3
4	0-4	Ap	10YR/4/3 Brown Loam/light Clay Loam	2/3
	4-26	CB	10YR/6/4 Light Yellowish Brown very light Silty Clay Loam/Silt Loam, variegated with 10YR/6/6 Brownish Yellow and 10YR/8/3 Very Pale Brown (parent), friable	3
	26-60	C	10YR/8/4 Very Pale Brown Silt Loam saprolite, variegated with 10YR/6/8 Brownish Yellow and 10YR/8/1 White (parent), dense PIT TERMINATED AT 60"	3
5	0-8	Ap	10YR/4/3 Brown Loam/light Clay Loam	2/3
	8-13	Bt	2.5YR/4/8 Red medium Silty Clay Loam, SAB structure	3
	13-36	BC	2.5YR/5/8 Red medium Silty Clay Loam, slightly variegated with 5YR/5/8 Yellowish Red and 7.5YR/8/6 Reddish Yellow (parent), massive structure	3
	36-57	CB	5YR/5/8 Yellowish Red light Silty Clay Loam, variegated with 7.5YR/6/8 Reddish Yellow and 10YR/7/6 Yellow (parent), dense PIT TERMINATED AT 57"	3



Soil Profile Descriptions, Continued

6	0-9	Ap	5YR/4/6 Yellowish Red light Clay Loam	3
	9-23	Bt	5YR/4/6 Yellowish Red very light Clay Loam with 5YR/5/8 Yellowish Red mottles (parent), friable	3
	23-42	BC	5YR/5/8 Yellowish Red Sandy Clay Loam with 5YR/4/6 Yellowish Red mottles (parent), dense but friable	2
	42-72	C	5YR/5/8 Yellowish Red Loam saprolite (granitic), variegated with 7.5YR/5/8 Strong Brown and 10YR/8/1 White (parent), friable PIT TERMINATED AT 72"	2

7	0-5	Ap	7.5YR/4/6 Strong Brown light Clay Loam	3
	5-12	B	5YR/4/6 Yellowish Red Clay Loam	3
	12-32	BC	5YR/4/6 Yellowish Red light Clay Loam/Sandy Clay Loam with 5YR/5/8 Yellowish Red mottles (parent) and common angular quartz fragments, friable	3/2
	32-74	C	5YR/5/8 Yellowish Red Loam saprolite (granitic), variegated with 10YR/5/4 Yellowish Brown and 10YR/8/1 White (parent), friable PIT TERMINATED AT 74"	2

8	0-26	Ap	7.5YR/4/6 Strong Brown Clay Loam	FILL
	26-60	Bt	5YR/4/6 Yellowish Red medium-heavy Clay Loam with 2.5YR/4/8 Red mottles (parent)	3
	60-72	C	10YR/7/8 Yellow Loam saprolite, variegated with 10YR/8/1 White and 7.5YR/5/8 Strong Brown (parent), friable PIT TERMINATED AT 72"	2

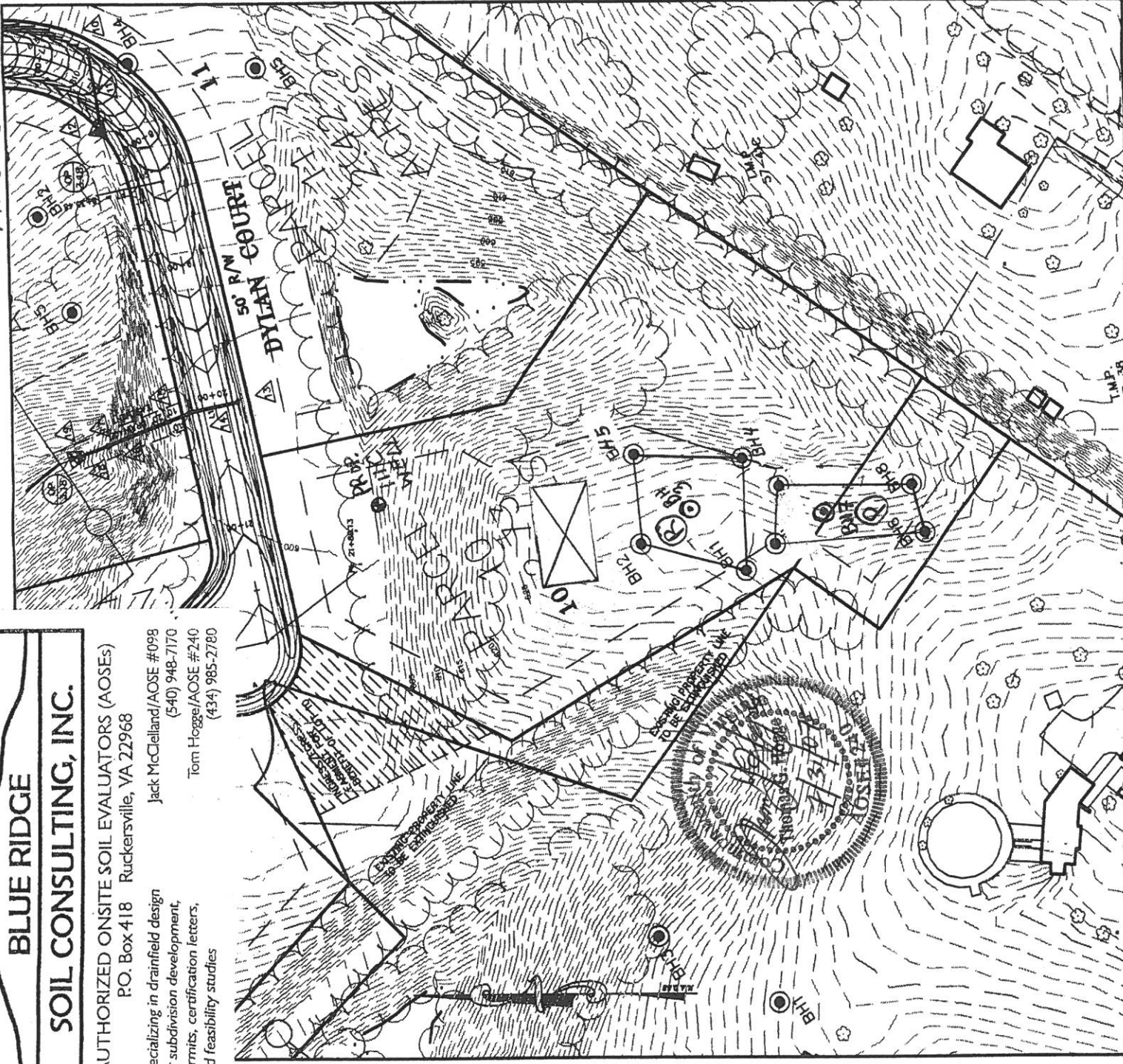


**BLUE RIDGE
SOIL CONSULTING, INC.**

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P.O. Box 418 Ruckersville, VA 22968

Specializing in drainfield design
for subdivision development,
permits, certification letters,
and feasibility studies

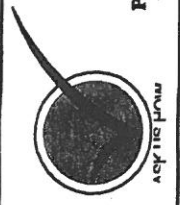
Jack McClelland/AOSE #098
(540) 948-7170
Tom Hogge/AOSE #240
(434) 985-2780



PROJECT # 20060711
DATE: APRIL 17, 2007
SCALE: 1" = 100'
DRAWN BY: BCM
APPROVED BY:

NOTES:
REVISED 7-19-07

Ⓟ = PRIMARY SEPTIC
Ⓡ = RESERVE SEPTIC



TOWNES
SITE ENGINEERING
9850 Lori Road, Suite 201
Chesterfield, Virginia 23632
Phone: (804) 748-9011 Fax: (804) 748-2590
Email: townes@cctownes.com

DRAINFIELD LOCATION
LOT # 10
FAIRHILL ESTATES SUBDIVISION
ALBEMARLE COUNTY, VIRGINIA

Abbreviated Design Form
 Fairhill Estates
 Lot 10
 PRIMARY DRAINFIELD (PITS #6 - 8)

Design Basis

- A. Estimated Percolation Rate (minutes per inch) 50 @ 48"
- B. Trench bottom square feet Required per bedroom (from Table 5.4) based on
X Gravity LPD other 376
- C. Number of bedrooms 4

Area Calculations

- D. Length of trench (ft.) 100
- E. Length of available area (ft.) 100
- F. Width of trench (ft.) 3
- G. Number of trenches 5
- H. Center-to-center spacing (ft.) 9
- I. Width required (ft.) 39
- J. Width of available area (ft.) 39-47
- K. Total square footage required 1504
- L. Square Footage in design 1500

M. Is a reserve area required? Yes (100% reserve drainfield design attached)



Abbreviated Design Form
 Fairhill Estates
 Lot 10

RESERVE DRAINFIELD (PITS # 1 - 5)

Design Basis

- A. Estimated Percolation Rate (Minutes Per Inch) 60 @ 48"
- B. Trench bottom square feet Required per bedroom (from Table 5.4 based on X Gravity ___ LPD ___ other 452
- C. Number of bedrooms 4



Area Calculations

- D. Length of trench (ft.) 80
- E. Length of available area (ft.) 80
- F. Width of trench (ft.) 3
- G. Number of trenches 8
- H. Center-to-center spacing (ft.) 9
- I. Width required (ft.) 66
- J. Width of available area (ft.) 70-85
- K. Total square footage required 1808
- L. Square Footage in design 1920
- M. Is a reserve area required? This is the reserve