**Authorized Onsite Soil Evaluator** 

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 01

**~**"-

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope			
Slope: 6%				
Depth to rock or imperviou	s strata, in.: Non	e maximum:	minimu	ım:
Depth to seasonal water ta	ble (gray mottling o	r color), in.:	lone	
Free water present:	No Range	in inches:		
Percolation rate estimated	: Yes		Texture class:	<u>III</u>
		Estimated ra	te average at depth:	65
		Estimate	ed rate slowest hole:	65
Percolation test preformed	: <u>No</u>	Number of pe	ercolation test holes:	
		Depth of pe	ercolation test holes:	
Comments:		Avera	age percolation rate:	
hand auger evaluation			•	

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	65 Lot 01
Number of Bedrooms	3
Design Flow, gpd	490 Site unified
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	3 12 9 Connonwealth or times
On-Center Spacing, ft.	9
Usable Width of Area, ft.	/ / VAUGHAN MAIRS \\ \tilde{\pi} \\ \\
Square Footage Required, sq. ft.	3247 AOSE #182
Square Footage Available, sq. ft.	Saughan Maiss
Installation Depth, in.	48
Reserve Area Included in Layout	3247  3600  48  100%  AOSE #182  Aughan Maiss  Turnonzer Onsite Soil Endis
<b>.</b>	Onsite 39
Other features	
_	ve areas included in this design
☐ Pump system requ	
Li Low pressure syste	em required
☐ Secondary treatme	ent required
☐ Secondary treatme	ent recommended
☐ 3C well (100' minin	num from any drainfield)
🛛 3B well (50' minima	um from any drainfield)
☐ Regrading of erosi	on features, etc. required
☐ Ground control not	on site at time of evaluation
☐ Thick vegetation o	n site at time of evaluation
☐ Deeper installation	may be possible with backhoe review
Other considerations	
	s if a conditional (reduced flow / limited occupancy)permit is

Authorized Onsite Soil Evaluator

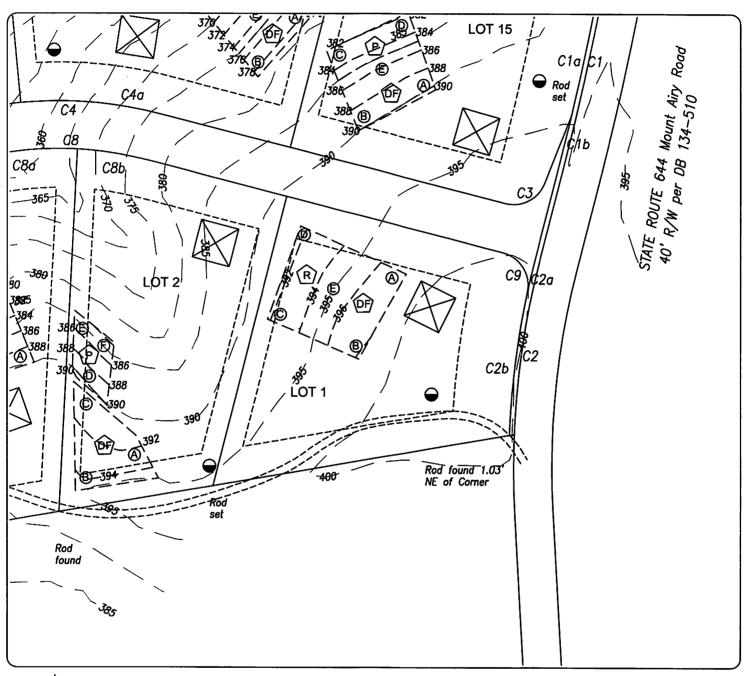
1670 Merrifields Lane, Ruckersville, Virginia 22968

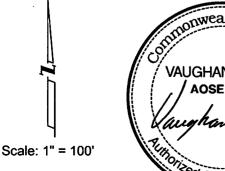
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:

#### Lot 1 **Hunterston**

showing proposed Drainfield, Well, & House Site









= House Site



Legend

= Drainfield



= Bore Hole





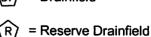
= Test Pit



= Well, IIIC



= Well, IIIB







Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

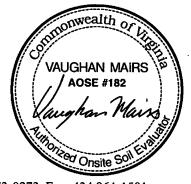
Date of evaluation 5/12/2005

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 01

Site unified

Horizon	Depth	Description		Textur
		Hole ID: A	Estimated rate, (min/in): 65@48 inches	Class
Α	0-6	yellowish brown (10YR5/4) loam		_ 11
BA	6-14	strong brown (7.5YR5/6) fine sandy clay loa	am	11
Bt	14-42	red (2.5YR4/6) clay loam to silty clay loam		111
ВС	42-60	red (2.5YR4/8) light clay loam to light silty of	clay loam; few fine mica flakes	111
СВ	60-66	red (2.5YR5/8) fine loam to light silty clay lo	pam; few fine mica flakes	11
		Hole ID: B	Estimated rate, (min/in): 50@48 inches	
Α	0-4	brown (10YR5/3) fine sandy loam		
ВА	4-12	strong brown (7.5YR5/6) fine sandy clay lo	am	11
Bt	12-24	red (2.5YR4/6) clay loam to silty clay loam		111
вс	24-46	red (2.5YR4/8) light clay loam to light silty of	clay loam	111
СВ	46-66	red (2.5YR5/8) fine loam; few fine sandy cla	ay loam tongues, few fine mica flakes	11
		Hole ID: C	Estimated rate, (min/in): 65@48 inches	
Α	0-6	brown (7.5YR5/4) fine loam		_ 
ВА	6-12	reddish brown (5YR5/4) fine sandy clay loa	ım to light clay loam	II
Bt	12-36	red (2.5YR4/6) silty clay loam		III
СВ	36-54	red (2.5YR4/8) light silty clay loam and silt	loam; few fine mica flakes	III
С	54-66	reddish brown (2.5YR4/4), red (2.5YR4/6) s flakes	silt loam schist saprolite friable; common mica	. III
***************************************		Hole ID: D	Estimated rate, (min/in): 65@48 inches	
Α	0-4	yellowish brown (10YR5/4) loam		 
ВА	4-10	reddish brown (5YR5/4) fine sandy clay loa	ım	II
Bt	10-36	red (2.5YR4/6) fine clay loam		· III
вс	36-48	red (2.5YR4/8) light clay loam		III
CB	48-66	red (2.5YR4/8) fine sandy clay loam		II
		Hole ID: E	Estimated rate, (min/in): 60@48 inches	
Α	0-4	dark grayish brown (10YR4/2) fine sandy lo	oam	 
ВА	4-12	strong brown (7.5YR5/6) fine sandy clay lo	am	II
Bt	12-36	red (2.5YR4/6) silty clay loam		Ш
ВС	36-48	red (2.5YR4/8) light silty clay loam; few mid	ca flakes	111
СВ	48-66	red (2.5YR4/6), yellowish red (5YR5/8) silt	loam; few mica flakes	111



#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 01 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:



**Authorized Onsite Soil Evaluator** 

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Primary design is for 3BR Reserve alternative design is for 4BR

605, Shannon Hill Rd.

### Soil Evaluation Report

Date:

3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot:

02

Site:

primary

Airy Rd., about 1.6 miles northwest of SR

Position in Landscape: Slope: <u>5-8%</u>	sidesiope	above swale	
Depth to rock or impervious	strata, in.:	None maximum: minim	um:
Depth to seasonal water table	e (gray m	ottling or color), in.: None	
Free water present:	No	Range in inches:	
Percolation rate estimated:	Yes	Texture class:	111
		Estimated rate average at depth:	
		Estimated rate slowest hole:	65
Percolation test preformed:	<u>No</u>	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			
		Sontonwealth of his	

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	65 Lot 02
Number of Bedrooms	3
Design Flow, gpd	450 Site primary
Trench Length, ft.	85
Trench Width, ft.	3
Number of Trenches	6 gonwealth or
On-Center Spacing, ft.	3 6 Contractive alth of the state of the sta
Usable Width of Area, ft.	L481 // VAUGHAN MAIRS \\ \\ \\ \\
Square Footage Required, sq. ft.	1491 AOSE #182
Square Footage Available, sq. ft.	1491 1530 AOSE #182  Aughan Maiss  Om Om Om Omega Onsite Soll Endogen
Installation Depth, in.	48
Reserve Area Included in Layout	0%
	0%  Rindriced Onsite Soil Evaluation
Other features	
	ve areas included in this design
☑ Pump system requ	ıired
☐ Low pressure system	em required
☐ Secondary treatme	ent required
☐ Secondary treatme	ent recommended
☐ 3C well (100' minir	mum from any drainfield)
☐ 3B well (50' minimal)	um from any drainfield)
☐ Regrading of erosi	ion features, etc. required
☐ Ground control no	t on site at time of evaluation
☐ Thick vegetation o	n site at time of evaluation
☐ Deeper installation	n may be possible with backhoe review
Other considerations	

#### page 3 of 5

#### Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

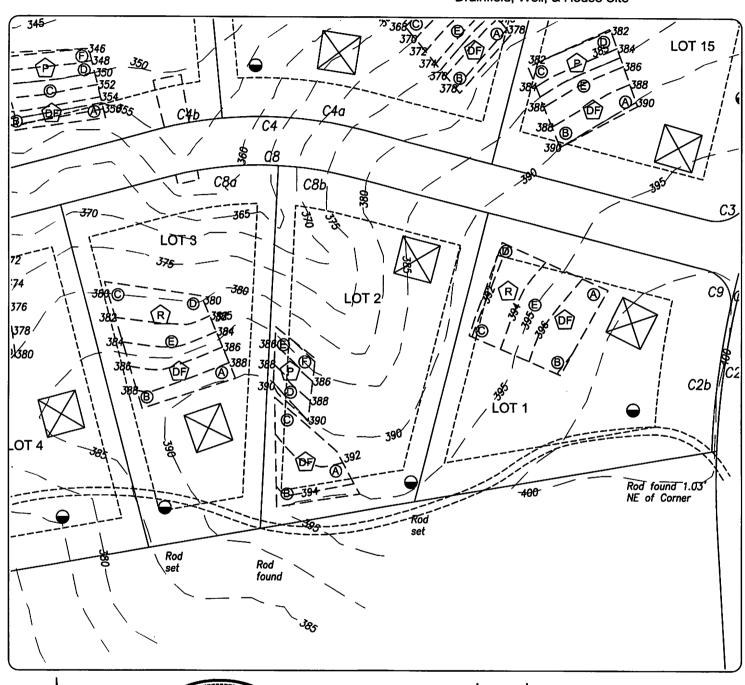
1670 Merrifields Lane, Ruckersville, Virginia 22968

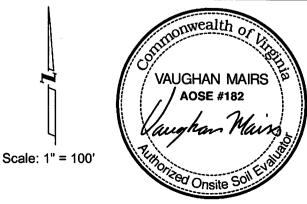
Phone: 434-973-0273 Fax: 434-964-1501

#### Sketch of: Lot 2 Hunterston

showing proposed

Drainfield, Well, & House Site





### Legend

= Well, IIIC

= House Site

(DF) = Drainfield

(A) = Bore Hole

R = Reserve Drainfield

A = Test Pit

P = Puraflo Drainfield

= Well, IIIB

D = Drip System

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 1/27/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 02

Site primary

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 65@48 inches	Class
Α	0-6	light olive brown (2.5Y5/4) loam		11
BA	6-46	yellowish brown (10YR5/4) fine sandy cla	y loam	11
Bt	46-46	yellowish brown (10YR5/6) fine clay loam	; few light yellow brown (10YR6/4) mottles	III
ВС	46-66	strong brown (7.5YR5/8) light clay loam		111
		Hole ID: B	Estimated rate, (min/in): 65@48 inches	***************************************
BA	0-8	yellowish brown (10YR5/4) fine sandy cla	y loam	ı II
Bt	8-38	red (2.5YR4/6) clay loam; few fine mica fl	akes	III
ВС	38-66	yellowish red (5YR5/6), strong brown (7.5 fine mica flakes	SYR5/8) fine sandy clay loam and light clay loam; few	II
		Hole ID: C	Estimated rate, (min/in): 55@48 inches	
BA	0-6	reddish brown (5YR5/4) fine sandy clay lo	pam	ı II
Bt	6-36	red (2.5YR4/6) fine clay loam		Ш
BC	36-46	red (10R4/6) light clay loam; few quartz fr	agments	Ш
СВ	46-66	red (10R4/8), strong brown (7.5YR5/8) loa	am to fine sandy clay loam; few fine mica flakes	II



#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 02 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

Morized Onsite Soll

VAUGHAN MAIRS , / AOSE #182

**Authorized Onsite Soil Evaluator** 

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 03

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: s	ideslope above swale	
Slope: <u>10%</u>		
Depth to rock or impervious s	rata, in.: None maximum: minimu	m:
Depth to seasonal water table	(gray mottling or color), in.: None	
Free water present:	Range in inches:	
	•	
Percolation rate estimated:	Yes Texture class:	<u>III</u>
	Estimated rate average at depth:	60
	Estimated rate slowest hole:	65
Percolation test preformed:	No Number of percolation test holes:	
	Depth of percolation test holes:	
Comments:	Average percolation raté:	

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501 VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Tittorized Onsite Soil Ending

# Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	60 Lot 03
Number of Bedrooms	3
Design Flow, gpd	490 Site unified
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	10 monwealth or L
On-Center Spacing, ft.	10 Contronwealth or Life
Usable Width of Area, ft.	L93I // VAUGHAN MAIRS \® \
Square Footage Required, sq. ft.	2961 AOSE #182
Square Footage Available, sq. ft.	Jaughan Maiss
Installation Depth, in.	
Reserve Area Included in Layout	100%  REPROPERTY OF THE SOIL ENDS
	Onsite 5
Other features	
<u> </u>	ve areas included in this design
☐ Pump system requ	
☐ Low pressure syst	
☐ Secondary treatme	
☐ Secondary treatme	
	mum from any drainfield)
☑ 3B well (50' minim	num from any drainfield)
☐ Regrading of eros	ion features, etc. required
☐ Ground control no	t on site at time of evaluation
☐ Thick vegetation o	on site at time of evaluation
☐ Deeper installation	n may be possible with backhoe review
Other considerations	
The design flow will accomodate 4 bedroom recorded.	ns if a conditional (reduced flow / limited occupancy)permit is

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

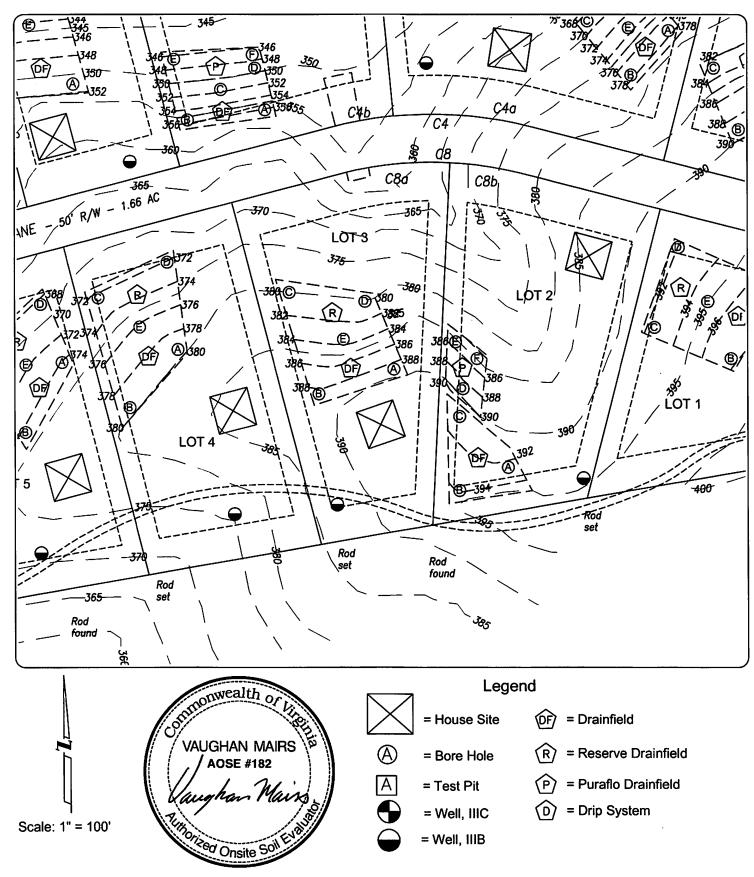
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:

#### Lot 3 Hunterston

showing proposed

Drainfield, Well, & House Site



Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/2/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 03

Site unified

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 55@42 inches	Class
Α	0-4	brown (10YR4/3) loam		<sub>  </sub>
ВА	4-8	brown (7.5YR5/4) fine sandy clay loam; for	brown (7.5YR5/4) fine sandy clay loam; few quartz fragments	
Bt	8-36	red (2.5YR4/6) clay loam		Ш
СВ	36-48	red (2.5YR5/8) fine sandy clay loam		ll ll
С	48-66	reddish brown (2.5YR5/4) fine loam; few	fine mica flakes	11
		Hole ID: B	Estimated rate, (min/in): 60@42 inches	
Α	0-4	dark grayish brown (10YR4/2) loam		
ВА	4-8	brown (7.5YR5/4) fine sandy clay loam; for	ew quartz fragments	II
Bt	8-34	red (2.5YR4/6) clay loam		111
СВ	34-60	red (2.5YR4/8) fine sandy clay loam with	light clay loam; few fine mica flakes	H
***************************************		Hole ID: C	Estimated rate, (min/in): 50@42 inches	
ВА	0-8	yellowish brown (10YR5/4) fine sandy clay loam; few quartz fragments		
Bt	8-30	yellowish red (5YR5/8) light clay loam		111
вс	30-40	yellowish red (5YR5/6), strong brown (7.5	5YR5/8) light clay loam and fine sandy clay loam	III
СВ	40-66	yellowish red (5YR5/8), yellowish brown (	(10YR5/8) fine loam; few fine mica flakes	II
		Hole ID: D	Estimated rate, (min/in): 65@42 inches	
Α	0-4	dark grayish brown (10YR4/2) loam		
ВА	4-12	yellowish brown (10YR5/4) fine sandy cla	ay loam	11
Bt	12-38	red (2.5YR4/6) light clay loam		III
ВС	38-48	red (2.5YR4/8) light clay loam and fine sa	andy clay loam; few fine mica flakes	111
СВ	48-60	red (2.5YR4/6), reddish brown (2.5YR5/4	) fine sandy clay loam; few fine mica flakes	П
		Hole ID: E	Estimated rate, (min/in): 60@42 inches	
Α	0-8	reddish brown (5YR5/4) light clay loam		III
Bt	8-24	red (2.5YR4/6) silty clay loam		III
вс	24-36	red (2.5YR4/8), yellowish red (5YR5/8) lig	ght silty clay loam	Ш
С	36-66	red (2.5YR5/6), light reddish brown (5YR	6/4), light yellowish brown (10YR6/4) silt loam	III



#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 03 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS
AOSE #182

Applicant: Stanford L. & Donna P. Hunter

Vienna, VA 703-938-9899

10200 Old Hunt Road

**Authorized Onsite Soil Evaluator** 

Project number: 03021

**Owner:** 

### Soil Evaluation Report

Date: 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot: 04

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope		
Slope: <u>7%</u>			
Depth to rock or impervious	strata, in.:	None maximum: minimu	ım:
Depth to seasonal water tab	ole (gray mo	ottling or color), in.: None	
Free water present:	No	Range in inches:	
Percolation rate estimated:	Yes	Texture class:	III
		Estimated rate average at depth:	60
		Estimated rate slowest hole:	60
Percolation test preformed:	<u>No</u>	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501 VAUGHAN MAIRS

# Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	60 Lot 04
Number of Bedrooms	4
Design Flow, gpd	600 Site unified
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12 Stronwealth of U
On-Center Spacing, ft.	9 8500
Usable Width of Area, ft.	/ / VAUGHAN MAIRS \\ \\ \\
Square Footage Required, sq. ft.	3626 AOSE #182
Square Footage Available, sq. ft.	3600 Laughan Maiss
Installation Depth, in.	48
Reserve Area Included in Layout	100%  Reproductive Soil Evans
Other features	O/ISIRE
☑ Primary and reserv	ve areas included in this design
☐ Pump system requ	
☐ Low pressure syste	em required
☐ Secondary treatme	ent required
☐ Secondary treatme	ent recommended
☐ 3C well (100' minin	num from any drainfield)
☒ 3B well (50' minime	um from any drainfield)
☐ Regrading of erosi	on features, etc. required
☐ Ground control not	on site at time of evaluation
☐ Thick vegetation of	n site at time of evaluation
☐ Deeper installation	may be possible with backhoe review
Other considerations	
Square Footage Required substantially com	plies with SH&D regulations.
•	-

#### page 3 of 5

### Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

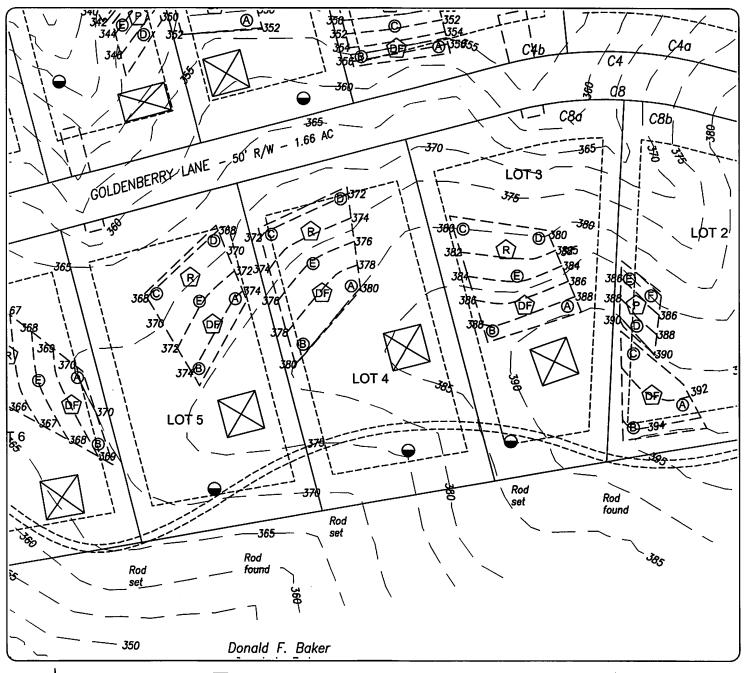
1670 Merrifields Lane, Ruckersville, Virginia 22968

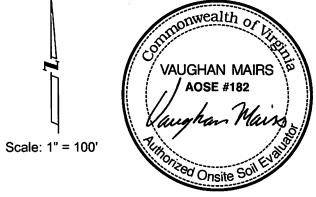
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 4 Hunterston

showing proposed

Drainfield, Well, & House Site





#### Legend

= House Site

= Well, IIIC

DF) = Drainfield

(A) = Bore Hole

R = Reserve Drainfield

A = Test Pit

P = Puraflo Drainfield
D = Drip System

= Well, IIIB

# Soil Profile Descriptions

Authorized Onsite Soil Evaluator

Date of evaluation 2/2/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 04

VAUGHAN MAIRS

Turborized Onsite Sc

Site unified

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 55@48 inches	Class
Α	0-4	yellowish brown (10YR5/4) fine sandy loam		II
BA	4-12	reddish yellow (7.5YR6/6) loam	reddish yellow (7.5YR6/6) loam	
Bt	12-30	red (2.5YR4/6) fine clay loam		111
вс	30-46	red (2.5YR4/8) light clay loam to fine sand	ly clay loam	Ш
СВ	48-66	red (2.5YR5/8) fine sandy clay loam		II
		Hole ID: B	Estimated rate, (min/in): 55@48 inches	
Α	0-4	dark grayish brown (10YR4/2) fine sandy	loam	11
BA	4-8	brown (7.5YR5/4) fine sandy clay loam		H
Bt	8-26	red (2.5YR4/6) fine clay loam		111
вс	26-40	red (2.5YR4/8) light clay loam to light silty	clay loam	111
СВ	40-66	red (2.5YR5/8) loam to light silt loam		li
		Hole ID: C	Estimated rate, (min/in): 60@48 inches	
Α	0-3	brown (10YR4/3) loam		II
ВА	3-8	brown (7.5YR5/4) fine sandy clay loam		II
Bt	8-42	yellowish red (5YR5/6) silty clay loam		111
СВ	42-60	red (2.5YR4/6), reddish brown (2.5YR5/4) flakes	) silt loam and light silty clay loam; common fine mica	111
С	60-66	red (2.5YR4/6), reddish brown (5YR5/4) s	silt loam mica schist saprolite	III
*		Hole ID: D	Estimated rate, (min/in): 60@48 inches	
ВА	0-10	yellowish brown (10YR5/4) fine sandy cla	y loam; few quartz fragments	П
Bt	10-34	red (2.5YR4/6) clay loam		Ш
вс	34-48	red (2.5YR4/8) fine sandy clay loam and I	ight clay loam	11
СВ	48-72	yellowish red (5YR5/8) fine sandy clay loa	am and fine loam; few fine mica flakes	11
		Hole ID: E	Estimated rate, (min/in): 55@48 inches	
Α	0-3	yellowish brown (10YR5/4) fine sandy loa	m	11
ВА	3-10	reddish yellow (7.5YR6/6) loam		H
Bt	10-36	red (2.5YR4/6) fine clay loam		III
ВС	36-48	red (2.5YR4/8) light clay loam to fine sand	dy clay loam	III
СВ	48-66	red (2.5YR5/8) fine sandy clay loam	mealth	H

#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 04 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

ed Onsite Soll

VAUGHAN MAIRS
AOSE #182

**Authorized Onsite Soil Evaluator** 

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 05

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope			
Slope: <u>9%</u>				
Depth to rock or impervious s	trata, in.: None	maximum:ı	minimur	m:
Depth to seasonal water table	e (gray mottling or co	or), in.: None		
Free water present:	No Range in ir	nches:		
Percolation rate estimated:	Yes	Texture	class:	111
		Estimated rate average at o	depth:	50
		Estimated rate slowes	t hole:	60
Percolation test preformed:	No	Number of percolation test	holes:	
		Depth of percolation test	holes:	
Comments:		Average percolation		
hand auger evaluation				

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

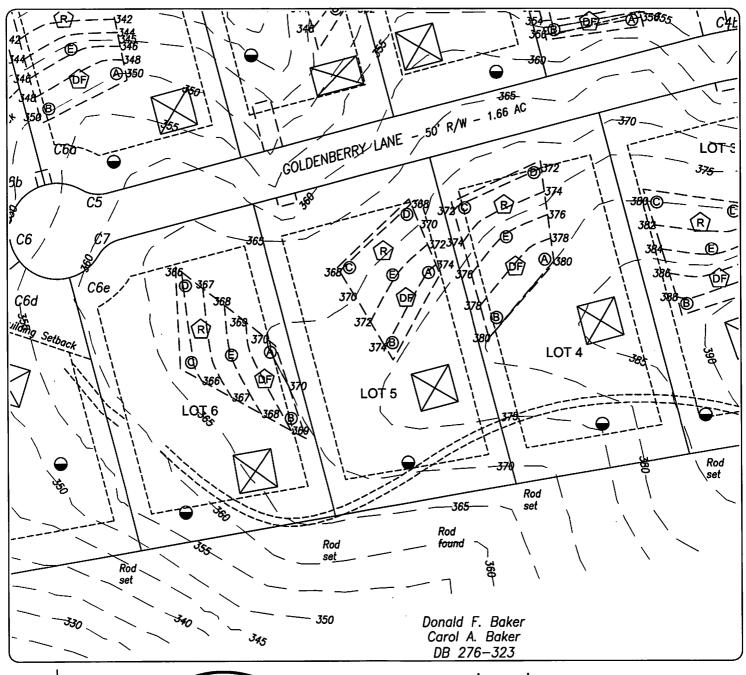
3.00					
Estimated Perc. Rate, min./in.	Project number 03021				
Number of Bedrooms	Lot 05				
Design Flow, gpd	600 Site unified				
Trench Length, ft.	100				
Trench Width, ft.	3				
Number of Trenches	10 monwealth or				
On-Center Spacing, ft.	9 8000				
Usable Width of Area, ft.	VAUGHAN MAIRS				
Square Footage Required, sq. ft.	3016 / AOSE #182				
Square Footage Available, sq. ft.	3000 Laughan Mairs				
Installation Depth, in.	48 Dangish Cath				
Reserve Area Included in Layout	100%  Tentorized Onsite Soil Evolution				
	ed Onsite Soll				
Other features					
☑ Primary and reserv	e areas included in this design				
☐ Pump system requ	ired .				
☐ Low pressure system	em required				
☐ Secondary treatment required					
☐ Secondary treatment recommended					
☐ 3C well (100' minin	num from any drainfield)				
☑ 3B well (50' minimu	ım from any drainfield)				
☐ Regrading of erosic	on features, etc. required				
☐ Ground control not	on site at time of evaluation				
☐ Thick vegetation o	n site at time of evaluation				
☐ Deeper installation	may be possible with backhoe review				
Other considerations	·				
Square Footage Required substantially com	plies with SH&D regulations.				

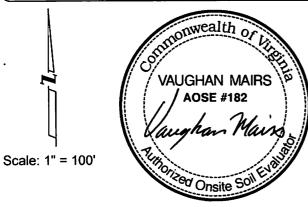
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 5 **Hunterston** 

showing proposed Drainfield, Well, & House Site





Legend

= House Site

= Test Pit

= Well, IIIC

= Bore Hole

= Well, IIIB

= Reserve Drainfield

= Drainfield

= Puraflo Drainfield

= Drip System

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

#### Date of evaluation 2/2/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 05

Site unified

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 45@48 inches	Class
ВА	0-12	yellowish brown (10YR5/4) sandy clay	loam; few quartz fragments	_
Bt	12-30	red (2.5YR4/6) clay loam		Ш
BC	30-42	red (2.5YR4/8) light clay loam and fine	sandy clay loam	Ш
СВ	42-66	red (2.5YR5/8) loam and fine sandy cla	y loam; few fine mica flakes	II
***************************************		Hole ID: B	Estimated rate, (min/in): 45@48 inches	
ВА	0-8	yellowish brown (10YR5/4) sandy clay	loam	<b>-</b>
Bt	8-26	red (2.5YR4/6) clay loam; few fine mica	ı flakes	Ш
BC	26-40	red (2.5YR4/8) fine sandy clay loam wit	th few light clay loam tongues; few fine mica flakes	II
СВ	40-66	yellowish red (5YR5/8) loam and fine sa	andy clay loam; few fine mica flakes	II
***************************************		Hole ID: C	Estimated rate, (min/in): 50@48 inches	
ВА	0-10	brown (10YR5/3) fine sandy clay loam;	few quartz fragments	_ 
Bt	10-42	red (2.5YR4/6) light clay loam; few fine	mica flakes	Ш
ВС	42-54	red (2.5YR4/8) fine sandy clay loam; fe	w fine mica flakes	11
СВ	54-66	yellowish red (5YR5/8), yellowish browi	n (10YR5/8) fine loam; few fine mica flakes	н
		Hole ID: D	Estimated rate, (min/in): 60@48 inches	
ВА	0-8	yellowish brown (10YR5/4) sandy clay l	oam; few quartz fragments	- 
Bt	8-36	yellowish red (5YR5/6) clay loam; few fi	ine mica flakes	III
ВС	36-48	yellowish red (5YR5/8) light clay loam a	and fine sandy clay loam; few fine mica flakes	Ш
СВ	48-66	yellowish red (5YR5/8), light yellowish t fine mica flakes	prown (10YR6/4) loam and fine sandy clay loam; few	II
		Hole ID: E	Estimated rate, (min/in): 50@48 inches	
Α	0-3	yellowish brown (10YR5/4) loam		
ВА	3-8	strong brown (7.5YR5/6) fine sandy cla	y loam	11
Bt	8-36	red (2.5YR4/6) clay loam		111
ВС	36-48	red (2.5YR4/8) light clay loam and fine	sandy clay loam	Ш
СВ	48-66	red (2.5YR4/8), yellowish red (5YR5/8) fine sandy clay loam to silt loam		



#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 05 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

AOSE #182

Vaughan Maiss

Turnorized Onsite Soil Edition

VAUGHAN MAIRS

**Authorized Onsite Soil Evaluator** 

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 06

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: _	ridge		-	
Slope: <u>5%</u>				
Depth to rock or impervious	strata, in.: Yes	maximum:	_ minimu	m: <u>54</u>
Depth to seasonal water tak	ole (gray mottling or c	olor), in.: None		
Free water present:	No Range in	inches:		
Percolation rate estimated:	Yes	Textur	e class:	111
		Estimated rate average a	t depth:	65
		Estimated rate slower	est hole:	75
Percolation test preformed:	<u>No</u> _	Number of percolation tes	st holes:	
		Depth of percolation tes	st holes:	
Comments:		Average percolati	on rate:	
hand auger evaluation				

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501 VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Flynorized Onsite Soil Edition

# Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	65 Lot 06
Number of Bedrooms	3
Design Flow, gpd	490 Site unified
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12 Agronwealth or L
On-Center Spacing, ft.	9 Cariti
Usable Width of Area, ft.	102 / VAUGHAN MAIRS
Square Footage Required, sq. ft.	3247 / AOSE #182
Square Footage Available, sq. ft.	3600 3600 Maryhan Maiss 100%
Installation Depth, in.	36
Reserve Area Included in Layout	100%
	100%  Red Onsite Soll Evaluation
Other features	
_	ve areas included in this design
☑ Pump system requ	
☐ Low pressure syst	
Secondary treatm	ent required
☐ Secondary treatm	ent recommended
☐ 3C well (100' mini	mum from any drainfield)
☒ 3B well (50' minim	um from any drainfield)
☐ Regrading of eros	ion features, etc. required
☐ Ground control no	t on site at time of evaluation
☐ Thick vegetation of	n site at time of evaluation
☐ Deeper installation	n may be possible with backhoe review
Other considerations	
The design flow will accomodate 4 bedroon recorded.	ns if a conditional (reduced flow / limited occupancy)permit is

Phone: 434-973-0273 Fax: 434-964-1501 1670 Merrifields Lane, Ruckersville, Virginia 22968

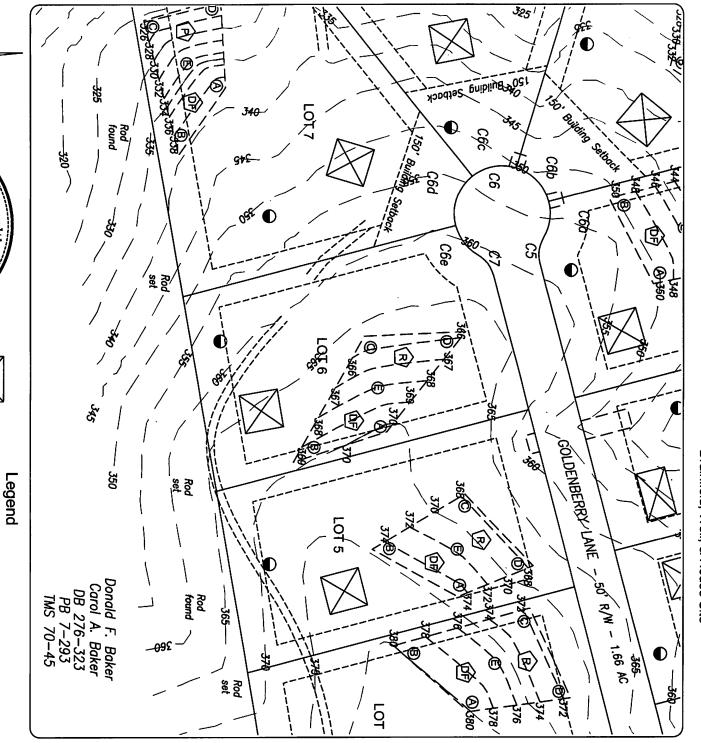
Sketch of:

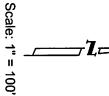
page 3 of 5

Lot 6

Hunterston

Drainfield, Well, & House Site showing proposed





















0 = Drip System

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/7/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 06

Site unified

Horizon	Depth	Description	Textur
		Hole ID: A Estimated rate, (min/in): 50@36 inches	Class
Α	0-4	brown (10YR5/3) loam	. 11
BA	4-10	strong brown (7.5YR5/6) light clay loam	Ш
Bt	10-30	red (2.5YR4/6) clay loam	Ш
ВС	30-42	red (2.5YR4/8) fine sandy clay loam; few fine mica flakes	II
СВ	42-66	red (10R4/8) fine loam; few fine mica flakes	H
		Hole ID: B Estimated rate, (min/in): 70@36 inches	
Α	0-4	brown (10YR5/3) loam	II
ВА	4-10	strong brown (7.5YR5/6) light clay loam	Ш
Bt	10-36	red (2.5YR4/6) clay loam; few fine mica flakes	Ш
ВС	36-66	red (2.5YR4/8), yellowish red (5YR5/8) light clay loam; few fine mica flakes	Ш
•	······································	Hole ID: C Estimated rate, (min/in): 65@36 inches	<u> </u>
Α	0-4	grayish brown (10YR5/2) loam	. 11
EB	4-10	brown (10YR5/3) fine sandy clay loam	11
BE	10-14	brown (7.5YR5/4) light silty clay loam	Ш
Bt	14-26	red (2.5YR4/6) silty clay loam	Ш
СВ	26-40	red (2.5YR4/6), strong brown (7.5YR5/8) silt loam and light silty clay loam	Ш
С	40-54	light reddish brown (5YR6/4), light yellowish brown (10YR6/4), strong brown (7.5YR4/6) silt loam to fine sandy loam — auger refusal @ 54" — paralithic	IH
		Hole ID: D Estimated rate, (min/in): 65@36 inches	
Α	0-3	brown (10YR4/3) loam	II
ВА	3-8	yellowish brown (10YR5/4) fine sandy clay loam	П
Bt	8-20	yellowish red (5YR5/6) clay loam	Ш
ВС	20-30	yellowish red (5YR5/6), strong brown (7.5YR5/6) fine sandy clay loam and clay loam; few fine mica flakes	II
С	30-66	dark yellowish brown (10YR4/4), brown (7.5YR5/4) fine loam saprolite and; many fine mica flakes, few fine sandy clay loam tongues	II
		Hole ID: E Estimated rate, (min/in): 75@36 inches	1
Α	0-4	brown (10YR5/3) loam	II
AB	4-12	light yellowish brown (10YR6/4) fine sandy clay loam	11
Bt	12-42	yellowish red (5YR5/6) silty clay loam	111
ВС	42-60	yellowish red (5YR5/8) light silty clay loam	Ш
		Hole ID: F Estimated rate, (min/in): 65@36 inches	
Α	0-4	brown (10YR5/3) fine sandy loam	, II
ВА	4-10	brown (7.5YR5/4) silt loam	Ш
ВС	10-20	strong brown (7.5YR5/6), yellowish brown (10YR5/4) light silty clay loam; common fine mica flakes	III
СВ	20-36	yellowish brown (10YR5/4) heavy silt loam; many fine mica flakes	Ш
С	36-60	dark yellowish brown (10YR4/4) silt loam mica schist saprolite  VAUGHAN MAIRS NOSE #182  Laughon Mairs 1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434 973-0273	III

#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 06 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:



**Authorized Onsite Soil Evaluator** 

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 07

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	shoulder		
Slope: <u>12-15%</u>			
Depth to rock or impervious	strata, in.: _h	None maximum: minim	um:
Depth to seasonal water tab	ole (gray mottlir	ng or color), in.: None	
Free water present:	No Rai	nge in inches:	
Percolation rate estimated:	Yes	Texture class	: <u>III                                 </u>
		Estimated rate average at depth	: 60
		Estimated rate slowest hole	: 60
Percolation test preformed:	<u>No</u>	Number of percolation test holes	:
		Depth of percolation test holes	•
Comments:		Average percolation rate	•
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501 VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Aughan Mairs

Au

# Abbreviated Drainfield Design

	Project numl	per 03021				
Estimated Perc. Rate, min./in.	60	ot 07				
Number of Bedrooms	3					
Design Flow, gpd	490	lite primary				
Trench Length, ft.	85					
Trench Width, ft.	3					
Number of Trenches	6	wealth of Vine				
On-Center Spacing, ft.	10	TOP!				
Usable Width of Area, ft.		HAN MAIRS				
Square Footage Required, sq. ft.	1481	OSE #182				
Square Footage Available, sq. ft.	1530	kan Main				
Installation Depth, in.	48	han Mairs				
Reserve Area Included in Layout	0%	Onsite Soil Evalue				
		Onsite Soll				
Other features						
☐ Primary and reserv	e areas included in this design					
☐ Pump system requ	ired					
☐ Low pressure system	em required					
☐ Secondary treatme	ent required					
☐ Secondary treatme	☐ Secondary treatment recommended					
☐ 3C well (100' minimum from any drainfield)						
🔀 3B well (50' minimu	um from any drainfield)					
☐ Regrading of erosi	on features, etc. required					
☐ Ground control not	on site at time of evaluation					
☐ Thick vegetation o	n site at time of evaluation					
☐ Deeper installation	may be possible with backhoe review					
Other considerations	•					
The proposed primary drainfield will occupy	the upper 6 trenches of the demarcated 10-	trench lavout				
•		•				
The design flow will accomodate 4 bedroom recorded.	s if a conditional (reduced flow / limited occ	upancy)permit is				

#### page 3 of 5

### Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

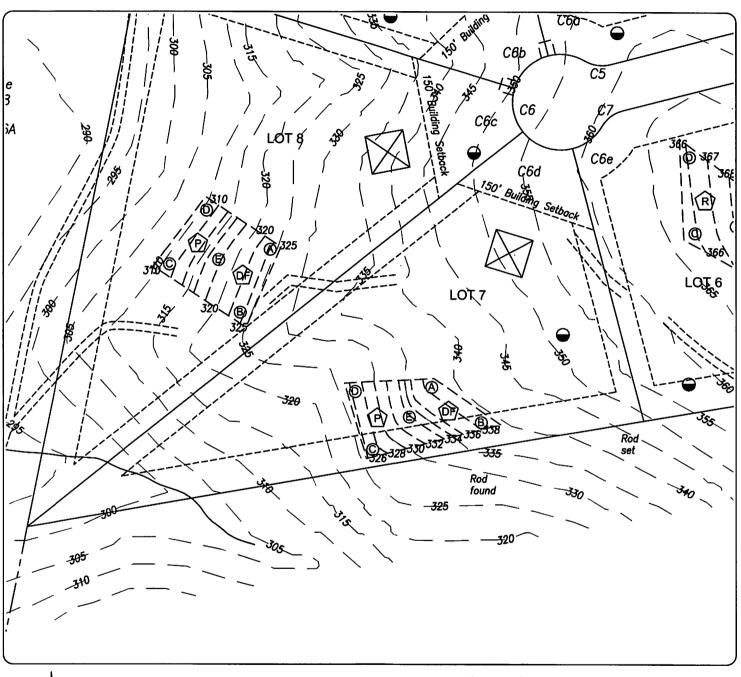
1670 Merrifields Lane, Ruckersville, Virginia 22968

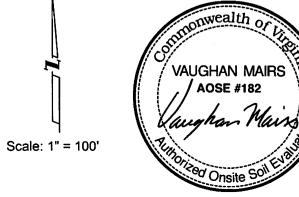
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 7

# Hunterston

showing proposed Drainfield, Well, & House Site







= House Site

= Bore Hole

= Test Pit

= Well, IIIC

= Well, IIIB

Legend

= Drainfield

= Reserve Drainfield

= Puraflo Drainfield

= Drip System

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/2/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 07

Site primary

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 60@48 inches	Class
ВА	0-10	yellowish brown (10YR5/4) fine sandy cla	y loam; few quartz fragments	11
Bt	10-44	red (2.5YR4/6) clay loam		Ш
вс	44-66	red (2.5YR4/8) light clay loam and fine sa	andy clay loam; few fine mica flakes	Ш
		Hole ID: B	Estimated rate, (min/in): 60@48 inches	
Α	0-3	grayish brown (10YR5/2) loam		 
ВА	3-8	yellowish brown (10YR5/4) fine sandy cla	y loam; few quartz fragments	П
Bt	8-36	red (2.5YR4/6) clay loam		Ш
вс	36-46	red (2.5YR4/8) fine sandy clay loam and	light clay loam; few fine mica flakes	11
С	46-66	red (2.5YR4/8), light yellowish brown (10 sandy clay loam; few fine mica flakes	YR6/4), yellowish red (5YR5/8) fine loam and fine	11
		Hole ID: E	Estimated rate, (min/in): 60@48 inches	
ВА	0-8	brown (7.5YR5/4) fine sandy clay loam; f	ew quartz fragments	
Bt	8-42	red (2.5YR4/6) clay loam; few fine mica f	lakes	Ш
ВС	42-66	yellowish red (5YR5/6) light clay loam an	d fine sandy clay loam; common fine mica flakes	Ш



#### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 07 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS / AOSE #182

Thorized Onsite

Signature:

Authorized Onsite Soil Evaluator

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 08

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	shoulder			
Slope: <u>16%</u>				
Depth to rock or impervious	strata, in.: None	maximum:	minimu	m:
Depth to seasonal water tab	ole (gray mottling or	color), in.: None		
Free water present:	No Range i	in inches:		
Percolation rate estimated:	Yes	Texture	e class:	III
		Estimated rate average at	depth:	65
		Estimated rate slower	st hole:	70
Percolation test preformed:	<u>No</u>	Number of percolation test	t holes:	-
		Depth of percolation test	t holes:	
Comments:		Average percolation	on rate:	
hand auger evaluation				

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



## Abbreviated Drainfield Design

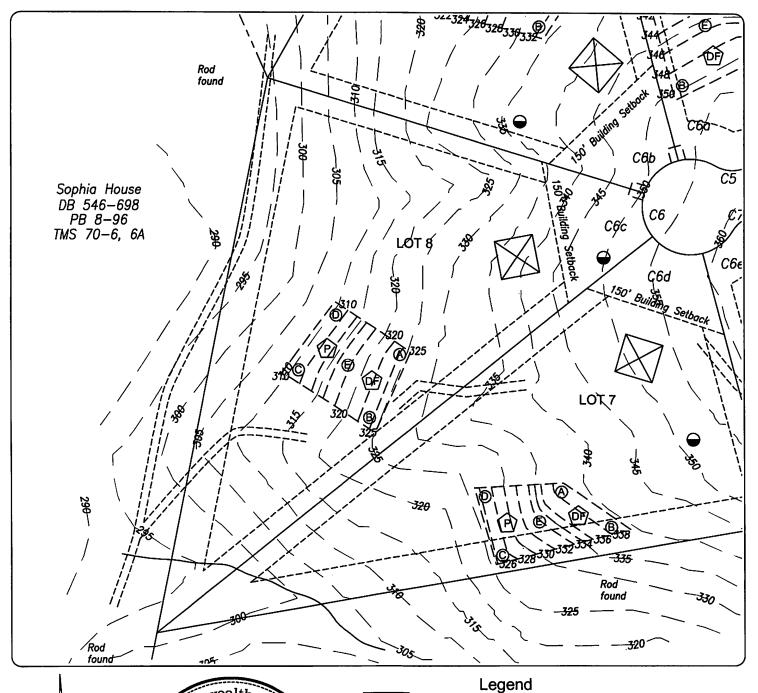
	Project number 03021
Estimated Perc. Rate, min./in.	65 Lot 08
Number of Bedrooms	3
Design Flow, gpd	490 Site primary
Trench Length, ft.	92
Trench Width, ft.	3
Number of Trenches	6 6 Commonwealth or Line
On-Center Spacing, ft.	10
Usable Width of Area, ft.	VAUGHAN MAIRS \\\^\\\\
Square Footage Required, sq. ft.	1623 AOSE #182
Square Footage Available, sq. ft.	1656 Laughan Maiss
Installation Depth, in.	30
Reserve Area Included in Layout	0%  Remorized Onsite Soil Evillation
<b></b>	Onsite 50
Other features	
	ve areas included in this design
☐ Pump system requ	
☐ Low pressure syst	•
☐ Secondary treatme	ent required
☐ Secondary treatme	ent recommended
☐ 3C well (100' minir	mum from any drainfield)
☒ 3B well (50' minim	um from any drainfield)
Regrading of erosi	ion features, etc. required
☐ Ground control no	t on site at time of evaluation
☐ Thick vegetation o	on site at time of evaluation
☐ Deeper installation	n may be possible with backhoe review
Other considerations	
	the upper 6 trenches of the demarcated 10-trench layout.
The proposed printery drawned will decupy	
The design flow will accomodate 4 bedroom recorded.	ns if a conditional (reduced flow / limited occupancy)permit is

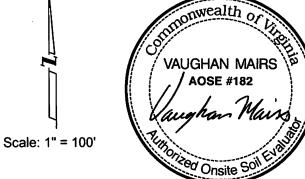
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 8 Hunterston

showing proposed Drainfield, Well, & House Site





= House Site

= Well, IIIC

= Drainfield

= Bore Hole

= Reserve Drainfield

= Test Pit

= Puraflo Drainfield = Drip System

= Well, IIIB

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/7/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 08

Site primary

Horizon	Depth	Description		Texture	
		Hole ID: A	Estimated rate, (min/in): 65@30 inches	Class	
Α	0-3	grayish brown (10YR5/2) loam		Ш	
BA	3-8	brown (7.5YR5/4) light silty clay loam; few	fine mica flakes	Ш	
ВС	8-48	yellowish red (5YR5/6), yellowish brown (7 fragments, common fine mica flakes	10YR5/6) silty clay loam and silt loam; few parent	Ш	
С	48-60	dark yellowish brown (10YR4/4) loam to s	ilt loam; common fine mica flakes — tight	II	
		Hole ID: B	Estimated rate, (min/in): 70@30 inches	***************************************	
BA	0-8	brown (7.5YR5/4) fine silty clay loam	brown (7.5YR5/4) fine silty clay loam		
Bt	8-36	red (2.5YR4/6) clay loam; few fine mica fla	akes	Ш	
ВС	36-48	red (2.5YR4/8) light clay loam; few fine mi	ca flakes	Ш	
СВ	48-60	red (2.5YR4/8), reddish brown (5YR5/4) fi mica flakes	ne sandy clay loam and light clay loam; common fine	Ħ	
		Hole ID: E	Estimated rate, (min/in): 60@30 inches		
Α	0-3	grayish brown (10YR5/2) loam		II	
ВА	3-8	yellowish brown (10YR5/4) fine sandy clay loam		II	
ВС	8-26	yellowish brown (10YR5/6) light clay loam	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam; common fine mica flakes		
С	26-60	dark yellowish brown (10YR4/4), reddish brown (5YR5/4) fine loam to silt loam; many fine mica flakes			



### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 08 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS
AOSE #182

Signature:

**Authorized Onsite Soil Evaluator** 

## Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 08

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope above swale	
Slope: <u>18%</u>		
Depth to rock or impervious	strata, in.: Yes maximum:	minimum: 60
Depth to seasonal water ta	ele (gray mottling or color), in.:	<u>e</u>
Free water present:	No Range in inches:	
Percolation rate estimated:	<u>Yes</u>	Texture class: III
	Estimated rate a	average at depth: 65
	Estimated r	rate slowest hole: 70
Percolation test preformed:	Number of perce	plation test holes:
	Depth of perco	plation test holes:
Comments:	Average	percolation rate:
hand auger evaluation		

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501 VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Rithorized Onsite Soil Eville

# Abbreviated Drainfield Design

#### Puraflo™ System

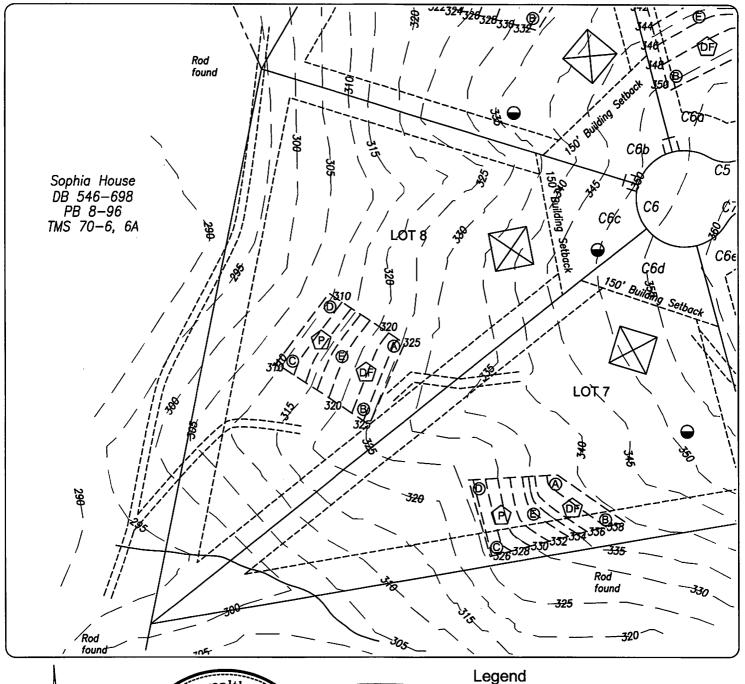
Estimated Perc. Rate, min./in.	65 Project number 03021				
Number of Bedrooms	4 Lot 08				
Design Flow, gpd	600				
Trench Length, ft.	85 Site reserve				
Trench Width, ft.	3				
Number of Trenches	4 10 Contronwealth or title 33				
On-Center Spacing, ft.	10 Standard				
Usable Width of Area, ft.	VAUGHAN MAIRS				
Square Footage Required, sq. ft.	878 / AOSE #182				
Square Footage Available, sq. ft.	1020 // h M:				
Installation Depth, in.	1020 30 100%				
Reserve Area Included in Layout	100%  Ten Onsite Soil Etablish				
	Sed Onsite Soll				
☐ Primary and rese	rve areas included in this design				
☑ Pump system req	-				
☐ Low pressure sys					
	☑ Secondary treatment required				
<u> </u>	☐ Secondary treatment recommended				
<u> </u>	imum from any drainfield)				
<u> </u>	num from any drainfield)				
<u> </u>	sion features, etc. required				
	ot on site at time of evaluation				
<u>_</u>	on site at time of evaluation				
<u> </u>	n may be possible with backhoe review				
·					
Other considerations The demarcated area will serve as a conve	ntional trench-type drainfield for a Puraflo™ (or equivalent) system.				
	the lower 4 trenches of the demarcated 10-trench layout.				
The proposed reserve drainined will occupy	The lower 4 denotes of the demarcated fortients layout.				

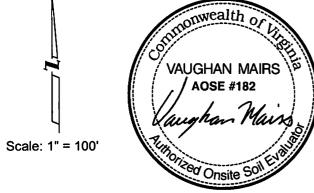
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 8 Hunterston

showing proposed
Drainfield, Well, & House Site





= House Site

= Well, IIIB

A = Bore Hole

A = Test Pit

= Well, IIIC

(DF) = Drainfield

R = Reserve Drainfield

P = Puraflo Drainfield

D = Drip System

Authorized Onsite Soil Evaluator

## Soil Profile Descriptions

#### Date of evaluation 2/7/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 08

Site reserve

Horizon	Depth	Description		Texture	
		Hole ID: C	Estimated rate, (min/in): 70@30 inches	Class	
Α	0-3	grayish brown (10YR5/2) loam		II	
BA	3-12	yellowish brown (10YR5/4) fine sandy cla	y loam	II	
Bt	12-36	brown (7.5YR5/4) light clay loam; few qua	rtz fragments	Ш	
ВС	36-48	yellowish red (5YR5/6), strong brown (7.5	YR5/8) light clay loam and fine sandy clay loam	Ш	
СВ	48-60	(7.5YR4/8), light yellowish brown (10YR6 flakes	(4) fine loam and fine sandy clay loam; few fine mica	11	
		Hole ID: D	Estimated rate, (min/in): 65@30 inches		
Α	0-3	grayish brown (10YR5/2) loam		11	
BA	3-10	yellowish brown (10YR5/4) light clay loam	1	Ш	
Bt	10-24	yellowish red (5YR5/6) clay loam; few fine	e mica flakes	Ш	
ВС	24-48	yellowish red (5YR5/6), strong brown (7.5 and fine sandy clay loam; few fine mica fla	YR5/6), yellowish brown (10YR5/4) light clay loam akes	111	
С	48-60	yellowish brown (10YR5/4), grayish brown paralithic @ 60"	n (2.5Y5/2) fine sandy loam to fine loam — tight	II	
		Hole ID: E	Estimated rate, (min/in): 60@30 inches		
Α	0-3	grayish brown (10YR5/2) loam		il	
BA ·	3-8	yellowish brown (10YR5/4) fine sandy cla	y loam	11	
ВС	8-26	yellowish brown (10YR5/6) light clay loam	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam; common fine mica flakes		
С	26-60	dark yellowish brown (10YR4/4), reddish l	brown (5YR5/4) fine loam to silt loam; many fine mica	11	



### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 08 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Rithorzed Onsite Soil Edding

Applicant: Stanford L. & Donna P. Hunter 10200 Old Hunt Road

> Vienna, VA 703-938-9899

Authórized Onsite Soil Evaluator

Project number: 03021

Owner:

## Soil Evaluation Report

Date: 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot: 09

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	convex sideslope			
Slope: <u>11%</u>				
Depth to rock or impervious	strata, in.: Yes	maximum: m	ninimum:	60
Depth to seasonal water tab	le (gray mottling or co	olor), in.: None		
Free water present:	No Range in i	nches:		
Percolation rate estimated:	Yes	Texture c	slass: III	
		Estimated rate average at de	epth: 65	
		Estimated rate slowest	hole: 70	<del></del>
Percolation test preformed:	<u>No</u>	Number of percolation test he	oles:	
		Depth of percolation test he	oles:	
Comments:		Average percolation		
hand auger evaluation				

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



## Abbreviated Drainfield Design

	Project number 03021
Estimated Perc. Rate, min./in.	65 Lot 09
Number of Bedrooms	3
Design Flow, gpd	490 Site unified
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12 shonwealth or L
On-Center Spacing, ft.	10 Strike
Usable Width of Area, ft.	113 VAUGHAN MAIRS
Square Footage Required, sq. ft.	1623 AOSE #182
Square Footage Available, sq. ft.	3600 Janahan Maiss
Installation Depth, in.	3600 Aughan Mairs 100% Ringon
Reserve Area Included in Layout	100%  Remorized Onsite Soil Evaluation
	Onsite So.
Other features	
_	ve areas included in this design
☐ Pump system requ	uired
LJ Low pressure syst	tem required
☐ Secondary treatm	ent required
☐ Secondary treatment	ent recommended
☐ 3C well (100' mini	mum from any drainfield)
☑ 3B well (50' minim	um from any drainfield)
☐ Regrading of eros	ion features, etc. required
☐ Ground control no	t on site at time of evaluation
☐ Thick vegetation of	on site at time of evaluation
☐ Deeper installation	n may be possible with backhoe review
Other considerations	
The design flow will accomodate 4 bedroom recorded.	ns if a conditional (reduced flow / limited occupancy)permit is
	·
	J

#### page 3 of 5

### Onsite Soil Consulting, LLC

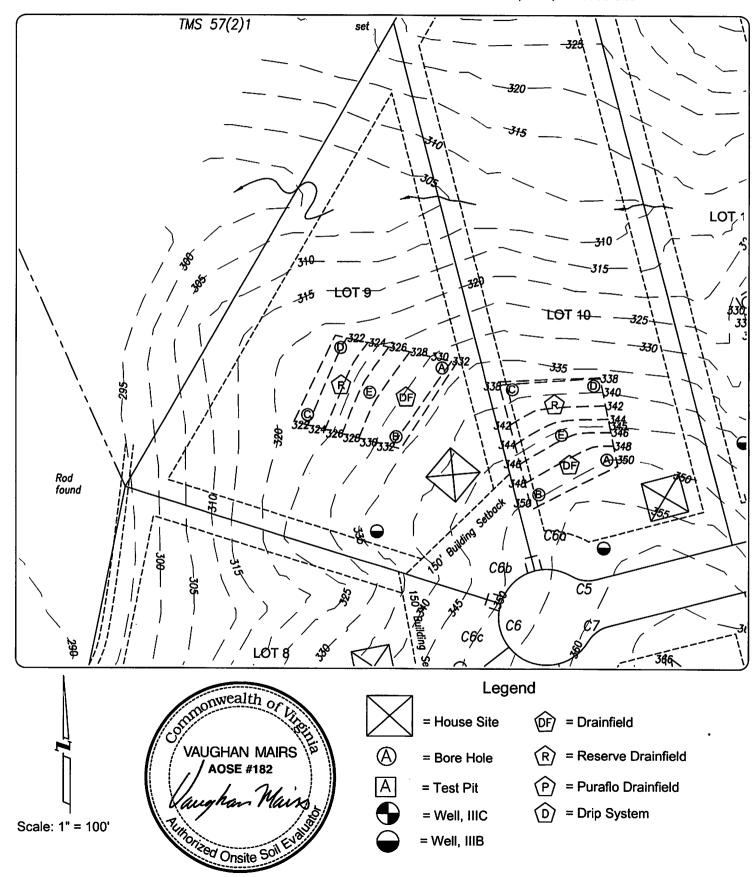
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

### Sketch of: Lot 9 Hunterston

showing proposed Drainfield, Well, & House Site



= Well, IIIB

## Soil Profile Descriptions

Authorized Onsite Soil Evaluator

Date of evaluation 2/7/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 09

Site unified

Horizon	Depth	Description		Textur
		Hole ID: A	Estimated rate, (min/in): 65@42 inches	Class
Α	0-2	dark grayish brown (10YR4/2) loam		Н
AB	2-12	brown (7.5YR5/4) fine sandy clay loam		II
Bt	12-36	yellowish red (5YR5/6) light silty clay loam		Ш
ВС	36-48	yellowish red (5YR5/8) silt loam; few light	silty clay loam tongues	Ш
С	48-60	yellowish red (5YR5/6), very dark grayish low chroma due to parent	brown (10YR3/2) silt loam mica schist saprolite —	Ш
·		Hole ID: B	Estimated rate, (min/in): 70@42 inches	
Α	0-2	dark grayish brown (10YR4/2) loam		II
AB	2-12	yellowish brown (10YR5/4) fine sandy clay	o loam	II
Bt	12-40	yellowish red (5YR5/6) light silty clay loam	to clay loam	III
ВС	40-60	strong brown (7.5YR5/8), red (2.5YR5/6) f	ine sandy clay loam and clay loam	11
СВ	60-66	light yellowish brown (10YR6/4), yellowish	red (5YR5/6) fine loam	11
		Hole ID: C	Estimated rate, (min/in): 65@42 inches	
ВА	0-8	dark yellowish brown (10YR4/4) fine sand	y clay loam	Н
Bt	8-30	yellowish red (5YR5/6) fine clay loam		III
ВС	30-48	yellowish red (5YR5/6), strong brown (7.5' fine mica flakes	YR5/6) light clay loam and fine sandy clay loam; few	III
СВ	48-60	strong brown (7.5YR5/8), light yellowish b few fine mica flakes — paralithic @ 60"	rown (10YR6/4) fine loam and fine sandy clay loam;	H
***************************************		Hole ID: D	Estimated rate, (min/in): 50@42 inches	
Α	0-4	grayish brown (10YR5/2) loam		11
ВА	4-12	yellowish brown (10YR5/4) fine sandy clay	y loam	II
Bt	12-36	strong brown (7.5YR5/8), yellowish brown	(10YR5/8) clay loam	III
С	36-72	yellowish brown (10YR5/4), pale brown (1	0YR6/3) fine loam to fine sandy loam	11
		Hole ID: E	Estimated rate, (min/in): 60@42 inches	
Α	0-3	grayish brown (10YR5/2) loam		II
ВА	3-8	yellowish brown (10YR5/4) fine sandy clay	y loam	II
Bt	8-30	yellowish red (5YR5/6) fine clay loam		Ш
ВС	30-48	yellowish red (5YR5/8), strong brown (7.5	YR5/8) fine sandy clay loam and light clay loam	11
СВ	48-72	yellowish brown (10YR5/8), strong brown	(7.5YR5/8) fine loam and fine sandy clay loam	11

### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 09 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Tunonzeg Onsite Soil Evident

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 10

Site: unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

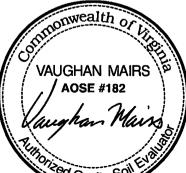
605, Shannon Hill Rd.

Position in Landscape:	convex sideslope		
Slope: <u>14%</u>			
Depth to rock or impervious s	strata, in.: None maximum:	minimur	m:
Depth to seasonal water table	e (gray mottling or color), in.: None		
Free water present:	No Range in inches:		
Percolation rate estimated:	Yes Texture	class:	111
	Estimated rate average at	depth:	60
	Estimated rate slowes	st hole:	65
Percolation test preformed:	Number of percolation test	holes:	
	Depth of percolation test	holes:	
Comments:	Average percolation	n rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



## Abbreviated Drainfield Design

	Project	number	03021
Estimated Perc. Rate, min./in.	60	Lot	10
Number of Bedrooms	3		
Design Flow, gpd	490	Site	unified
Trench Length, ft.	100		
Trench Width, ft.	3		
Number of Trenches	10		
On-Center Spacing, ft.	10		
Usable Width of Area, ft.	93		
Square Footage Required, sq. ft.	2961		
Square Footage Available, sq. ft.	3000		
Installation Depth, in.	42		
Reserve Area Included in Layout	100%		
	·		
Other features			
⊠ Primary and reserv	e areas included in this design		
☐ Pump system requi	red		
☐ Low pressure syste	m required		
☐ Secondary treatme	nt required		
☐ Secondary treatme	nt recommended		
☐ 3C well (100' minim	um from any drainfield)		
🔀 3B well (50' minimu	m from any drainfield)		
☐ Regrading of erosic	on features, etc. required		
☐ Ground control not	on site at time of evaluation		
☐ Thick vegetation or	site at time of evaluation		
☐ Deeper installation	may be possible with backhoe review		
Other considerations			
The design flow will accomodate 4 bedrooms	s if a conditional (reduced flow or limits	d accur	ancy\nermit is
recorded.		a oooup	arioy/perinicia
			j

Authorized Onsite Soil Evaluator

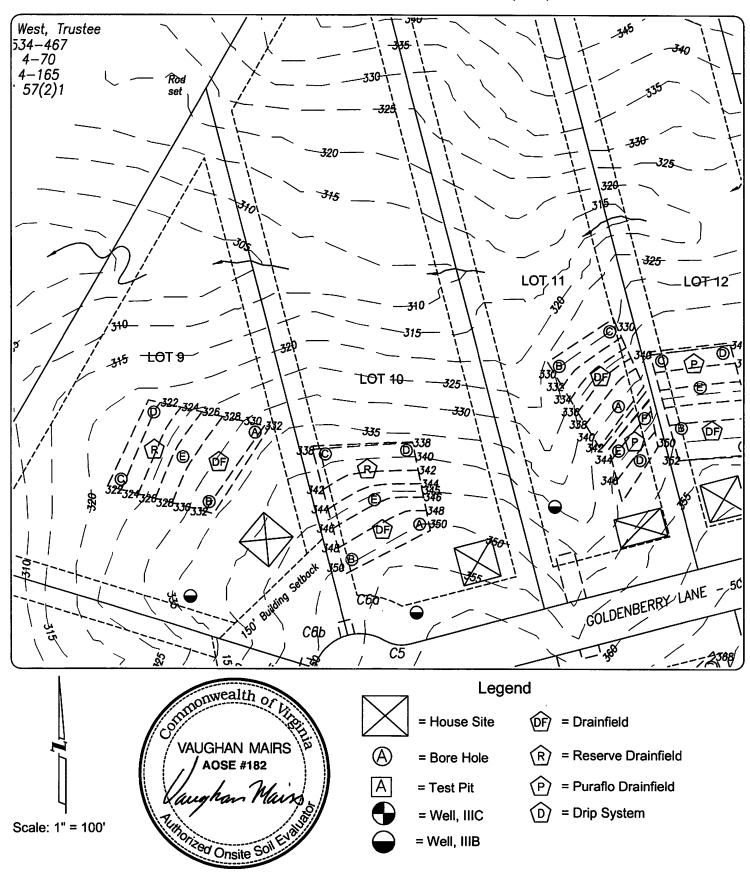
1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:

### Lot 10 Hunterston

showing proposed
Drainfield, Well, & House Site



Authorized Onsite Soil Evaluator

## Soil Profile Descriptions

Date of evaluation 2/9/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 10

Site unified

Horizon	Depth	Description		Texture		
		Hole ID: A	Estimated rate, (min/in): 55@42 inches	Class		
Α	0-4	grayish brown (10YR5/2) loam		 II		
ВА	4-10	yellowish brown (10YR5/4) fine sandy cla	ay loam	II		
Bt	10-30	red (2.5YR4/6) fine clay loam	ed (2.5YR4/6) fine clay loam			
вс	30-40	red (2.5YR4/8) light clay loam and fine sa	andy clay loam	Ш		
СВ	40-60	reddish brown (2.5YR5/4), red (2.5YR4/8 flakes, few quartz fragments	B) fine sandy clay loam and fine loam; few fine mica	11		
		Hole ID: B	Estimated rate, (min/in): 65@42 inches	1		
Α	0-4	dark grayish brown (10YR4/2) loam				
ВА	4-10	brown (7.5YR5/4) fine sandy clay loam	·	П		
Bt	10-38	red (2.5YR4/6) fine clay loam		111		
ВС	38-54	red (2.5YR4/8) light clay loam and fine so fragments	andy clay loam; few fine mica flakes, few quartz	Ш		
СВ	54-60	red (2.5YR4/8) fine sandy clay loam and	loam; few fine mica flakes	II		
		Hole ID: C	Estimated rate, (min/in): 60@42 inches	1		
Α	0-4	dark yellowish brown (10YR4/4) loam		II		
ВА	4-10	yellowish brown (10YR5/4) fine sandy cla	ay loam	II		
Bt	10-36	red (2.5YR4/6) silty clay loam		Ш		
ВС	36-48	red (2.5YR4/8) light silty clay loam		Ш		
<u>C</u>	48-66	red (2.5YR5/6), light brown (7.5YR6/4), v	veak red (10R5/4) silt loam	Ш		
		Hole ID: D	Estimated rate, (min/in): 55@42 inches			
Α	0-3	grayish brown (10YR5/2) loam		- 11		
BA	3-8	yellowish brown (10YR5/4) fine sandy cla	ay loam	II		
Bt	8-30	red (2.5YR4/6), yellowish red (5YR5/6) fi	ne clay loam	Ш		
BC	30-40	red (2.5YR4/8), yellowish red (5YR5/8) li	ght clay loam and fine sandy clay loam	Ш		
СВ	40-72	red (2.5YR5/6), yellowish red (5YR5/6) fi	ne loam; few fine mica flakes	11		
		Hole ID: E	Estimated rate, (min/in): 65@42 inches			
Α	0-4	grayish brown (10YR5/2) loam		II		
BA	4-12	yellowish brown (10YR5/4) fine sandy cla	ay loam	. #		
Bt	12-36	red (2.5YR4/6) fine clay loam		111		
ВС	36-52	red (2.5YR4/8) light clay loam and fine sa	andy clay loam; few fine mica flakes	Ш		
СВ	52-72	red (2.5YR4/8) fine loam; few fine mica f	VAUGHAN MAIRS	II		

### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 10 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

Bonzed Onsite Soil E

VAUGHAN MAIRS

**Authorized Onsite Soil Evaluator** 

## Soil Evaluation Report

**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot:

11

Site: primary

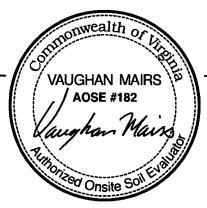
Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: _	shoulder and sideslo	рре	-	
Slope: <u>16-19%</u>				
Depth to rock or impervious	strata, in.: None	maximum:	_ minimu	m:
Depth to seasonal water tal	ole (gray mottling or c	olor), in.: None		•
Free water present:	No Range in	inches:		
Percolation rate estimated:	Yes	Textu	re class:	<u>III</u>
		Estimated rate average a	at depth:	60
		Estimated rate slowe	est hole:	60
Percolation test preformed:	<u>No</u>	Number of percolation tes	st holes:	
		Depth of percolation te	st holes:	
Comments:		Average percolat	ion rate:	
hand auger evaluation				•

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



## Abbreviated Drainfield Design

Estimated Days Date win the	Project number 03021		
Estimated Perc. Rate, min./in.	60 Lot 11		
Number of Bedrooms	4		
Design Flow, gpd	600 Site primary		
Trench Length, ft.	75		
Trench Width, ft.	3 8 8 Contronwealth or Line		
Number of Trenches	8 Regionwealth or Little		
On-Center Spacing, ft.	10		
Usable Width of Area, ft.	VAUGHAN MAIRS \P		
Square Footage Required, sq. ft.	1813 AOSE #182		
Square Footage Available, sq. ft.	Laughan Maiss		
Installation Depth, in.	1813  1800  42  Rughan Mairs  1813  Aughan Mairs		
Reserve Area Included in Layout	0%  Ringorised Onsite Soil Eville		
<b></b>	O'Isile 3		
Other features			
☐ Primary and reserve areas included in this design			
☐ Pump system required			
Low pressure system required			
☐ Secondary treatment required			
☐ Secondary treatm	☐ Secondary treatment recommended		
☐ 3C well (100' minimum from any drainfield)			
☒ 3B well (50' minim	um from any drainfield)		
☐ Regrading of eros	ion features, etc. required		
☐ Ground control no	t on site at time of evaluation		
☐ Thick vegetation of	n site at time of evaluation		
☐ Deeper installation	n may be possible with backhoe review		
Other considerations			
Square Footage Required substantially con	nolies with SH&D regulations		
Sage 21 Sage 1 1 Sage 100 Control of the 100 Contro	ipnos mai o los regulatione.		

#### page 3 of 5

### Onsite Soil Consulting, LLC

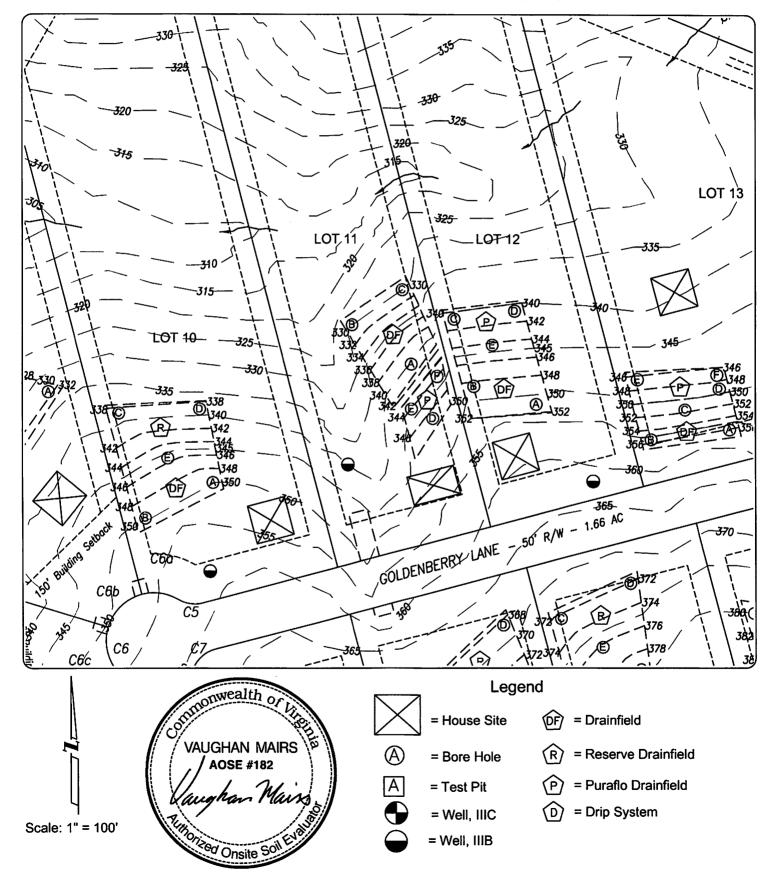
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 11 Hunterston

showing proposed

Drainfield, Well, & House Site



Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/9/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 11

Site primary

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 55@42 inches	Class
ВА	0-12	yellowish brown (10YR5/4) light clay loam		
Bt	12-24	strong brown (7.5YR5/6) clay loam		Ш
вс	24-36	yellowish brown (10YR5/6) light clay loam	and fine sandy clay loam	Ш
СВ	36-60	yellowish brown (10YR5/6), light yellowish	brown (10YR6/4) loam to fine sandy clay loam	II
<del></del>		Hole ID: B	Estimated rate, (min/in): 55@42 inches	
Α	0-4	dark grayish brown (10YR4/2) loam		
AB	4-10	dark yellowish brown (10YR4/4) fine sandy clay loam		П
Bt	10-24	yellowish brown (10YR5/6) fine day loam		III
вс	24-38	brownish yellow (10YR6/6) fine sandy clay loam and light clay loam		II
СВ	38-60	brownish yellow (10YR6/6), light yellowish brown (10YR6/4) fine loam and fine sandy clay loam		II
		Hole ID: C	Estimated rate, (min/in): 60@42 inches	
Α	0-4	dark grayish brown (10YR4/2) loam		11
ВА	4-10	yellowish brown (10YR5/4) fine sandy clay loam		11
Bt	10-30	strong brown (7.5YR5/6) fine clay loam		III
СВ	30-48	brownish yellow (10YR6/8), yellowish brown (10YR5/6) fine sandy clay loam; few fine clay loam tongues		
С	48-72	yellowish brown (10YR5/4), brown (10YR5/3) fine loam; few fine mica flakes		II



### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 11 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Rundon Paris Soil English

Authorized Onsite Soil Evaluator

## Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 11

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope		
Slope: <u>12%</u>			
Depth to rock or impervious	strata, in.:	None maximum: minim	um:
Depth to seasonal water table	e (gray mo	ottling or color), in.: None	
Free water present:	No	Range in inches:	
Percolation rate estimated:	Yes	Texture class:	: [11]
		Estimated rate average at depth:	70
		Estimated rate slowest hole:	70
Percolation test preformed:	No	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

#### Puraflo™ System

Estimated Perc. Rate, min./in.	70 Project number 03021		
Number of Bedrooms	4 Lot 11		
Design Flow, gpd	600		
Trench Length, ft.	65 Site reserve		
Trench Width, ft.	3		
Number of Trenches	5 monwealth or		
On-Center Spacing, ft.	10 String		
Usable Width of Area, ft.	VAUGHAN MAIRS		
Square Footage Required, sq. ft.	946 / AOSE #182		
Square Footage Available, sq. ft.	975 Maria		
Installation Depth, in.	42 Wallynam Platts		
Reserve Area Included in Layout	100%		
	100%  Repropried Onsite Soil Evalled		
☐ Primary and rese	ve areas included in this design		
☑ Pump system req	uired		
☐ Low pressure system required			
☑ Secondary treatment required			
☐ Secondary treatment recommended			
<u> </u>	mum from any drainfield)		
<u></u>	num from any drainfield)		
	sion features, etc. required		
	ot on site at time of evaluation		
☐ Thick vegetation of	on site at time of evaluation		
<u> </u>	n may be possible with backhoe review		
Other considerations			
	ntional trench-type drainfield for a Puraflo™ (or equivalent) system.		

#### page 3 of 5

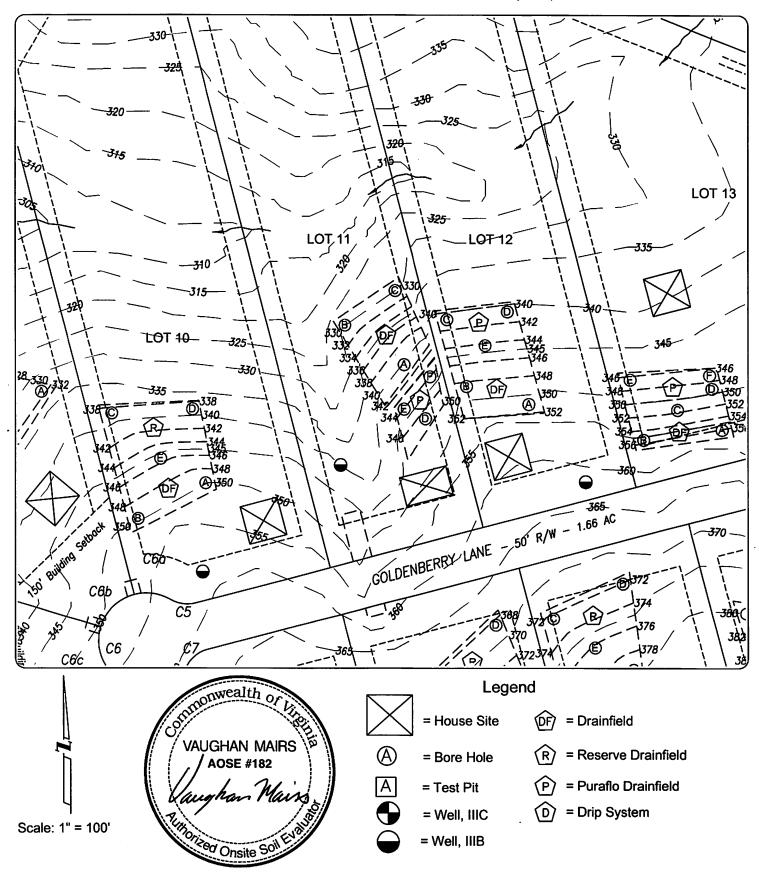
### Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

### Sketch of: Lot 11 Hunterston

showing proposed Drainfield, Well, & House Site



Soil Profile Descriptions

Authorized Onsite Soil Evaluator

Date of evaluation 2/9/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 11

Site reserve

- Horizon	Depth	Description		Texture
		Hole ID: D	Estimated rate, (min/in): 70@42 inches	Class
Α	0-4	grayish brown (10YR5/2) loam		II
AB	4-12	light yellowish brown (10YR6/4) fine sand	y clay loam	II
Bt	12-30	strong brown (7.5YR5/6) fine clay loam		111
вс	30-48	strong brown (7.5YR5/8) light clay loam a	nd fine sandy clay loam	III
СВ	48-60	strong brown (7.5YR5/8), yellowish brown	n (10YR5/8) fine sandy clay loam	II
		Hole ID: E	Estimated rate, (min/in): 70@42 inches	
Α	0-4	grayish brown (10YR5/2) loam		11
ВА	4-10	yellowish brown (10YR5/4) fine sandy cla	y loam	II
Bt	10-36	yellowish red (5YR5/6) fine clay loam		Ш
ВС	36-60	yellowish red (5YR5/8) light clay loam		Ш
		Hole ID: F	Estimated rate, (min/in): 65@42 inches	
Α	0-6	grayish brown (10YR5/2) loam		П
ВА	6-12	yellowish brown (10YR5/4) fine sandy cla	y loam	II
Bt	12-30	strong brown (7.5YR5/6) fine clay loam		Ш
СВ	30-54	strong brown (7.5YR5/6), yellowish brown (10YR5/4) fine sandy clay loam and light clay loam; II common fine mica flakes		11
С	54-60	olive brown (2.5Y4/4), strong brown (7.5)	/R5/6) loam to silt loam; many fine mica flakes	II



### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 11 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS

VAUGHAN MAIRS

AOSE #182

Vaughan Mairs

Tunonzed Onsite Soil Eville

## Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 12

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: side	eslope	
Slope: <u>9-11%</u>		
Depth to rock or impervious strat	a, in.: None maximum:	minimum:
Depth to seasonal water table (g	ray mottling or color), in.: None	
Free water present: No	Range in inches:	
Percolation rate estimated: Y	<u>es</u> Textur	e class: III
	Estimated rate average a	depth: 70
	Estimated rate slowe	st hole: 75
Percolation test preformed: N	oNumber of percolation tes	t holes:
	Depth of percolation tes	t holes:
Comments:	Average percolation	<del>_</del>
hand auger evaluation		

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.  Number of Bedrooms  Design Flow, gpd  Trench Length, ft.  Trench Width, ft.  Number of Trenches  On-Center Spacing, ft.  Usable Width of Area, ft.  Square Footage Required, sq. ft.  Square Footage Available, sq. ft.  Installation Depth, in.  Reserve Area Included in Layout	3 490 80 3 8 10 73 1780 1920	ber 03021  Lot 12  Site primary  GHAN MAIRS  AOSE #182  Than Mairs  Onsite Soll Evaluation		
Other features		_		
☐ Primary and reser	ve areas included in this design			
☐ Pump system required				
☐ Low pressure system required				
☐ Secondary treatment required				
☐ Secondary treatment recommended				
☐ 3C well (100' mini	☐ 3C well (100' minimum from any drainfield)			
☒ 3B well (50' minim	um from any drainfield)			
☐ Regrading of eros	on features, etc. required			
☐ Ground control no	t on site at time of evaluation			
☐ Thick vegetation of	n site at time of evaluation			
☐ Deeper installation	may be possible with backhoe review			
Other considerations				
The proposed primary drainfield will occupy the upper 8 trenches of the demarcated 12-trench layout.				
The design flow will accomodate 4 bedroom recorded.		·		

#### page 3 of 5

### Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

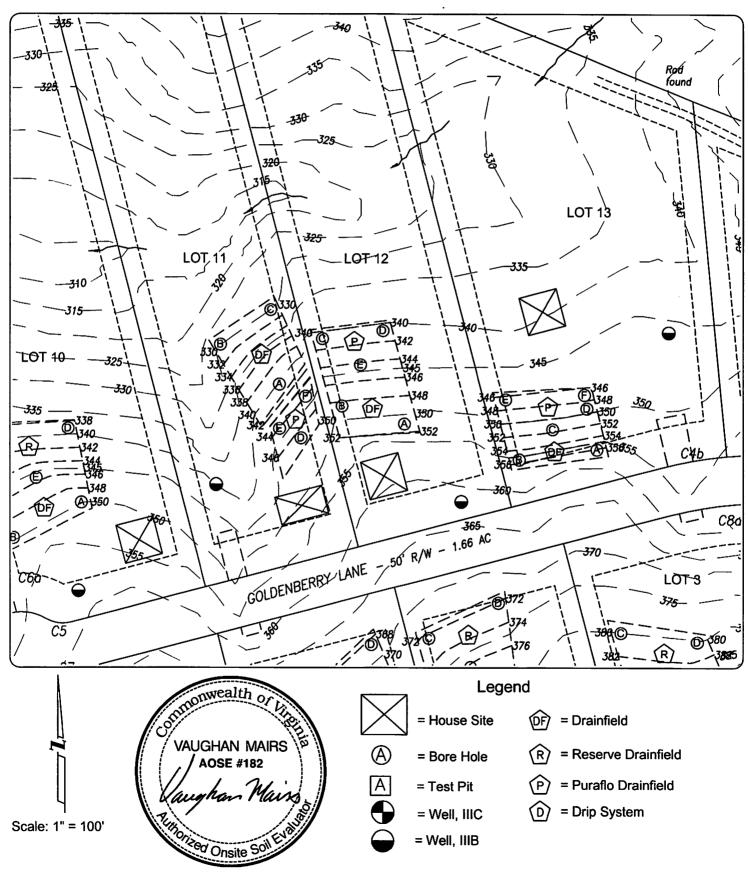
1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 12

### Lot 12 Hunterston

showing proposed Drainfield, Well, & House Site



**Authorized Onsite Soil Evaluator** 

# Soil Profile Descriptions

Date of evaluation 2/10/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 12

Site primary

Horizon	Depth	Description		Texture
<u> </u>		Hole ID: A	Estimated rate, (min/in): 75@42 inches	Class
Α	0-4	brown (10YR5/3) loam		_ 
AB	4-12	yellowish brown (10YR5/6) fine sandy cla	y loam	II
Bt	12-36	strong brown (7.5YR5/6) light clay loam		Ш
Bt2	36-66	yellowish red (5YR5/6) fine clay loam		Ш
вс	66-72	yellowish red (5YR5/6), strong brown (7.5	SYR5/6) fine sandy clay loam to light silty clay loam	II
		Hole ID: B	Estimated rate, (min/in): 65@42 inches	
Α	0-2	dark grayish brown (10YR4/2) loam		
AB	2-8	light yellowish brown (10YR6/4) fine sandy clay loam		II
Bt	8-38	yellowish red (5YR5/6) fine clay loam		Ш
ВС	38-60	yellowish red (5YR5/8) fine sandy clay loam to silt loam; few fine mica flakes, few quartz fragments		11
СВ	60-72	reddish yellow (5YR6/6), reddish yellow (	7.5YR6/6) fine loam	П
		Hole ID: E	Estimated rate, (min/in): 65@42 inches	
AB	0-6	brown (7.5YR5/4) fine sandy clay loam		- II
Bt	6-30	yellowish red (5YR5/6) fine clay loam		Ш
ВС	30-48	strong brown (7.5YR5/6) light clay loam to heavy sandy clay loam — fine		. 111
СВ	48-72	strong brown (7.5YR5/8), brownish yellow (10YR6/6) fine sandy clay loam to loam; few fine mica flakes		li



### Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 12 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

Unsite 35

VAUGHAN MAIRS
AOSE #182

### Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 12

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: sides	lope
Slope: <u>9-11%</u>	
Depth to rock or impervious strata	, in.: None maximum: minimum:
Depth to seasonal water table (gra	ay mottling or color), in.: None
Free water present: No	Range in inches:
Percolation rate estimated: Yes	S Texture class: III
	Estimated rate average at depth: 60
	Estimated rate slowest hole: 65
Percolation test preformed: No	Number of percolation test holes:
	Depth of percolation test holes:
Comments:	Average percolation rate:
hand auger evaluation	

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

#### Puraflo™ System

Estimated Perc. Rate, min./in.	60	Project number 03021		
Number of Bedrooms	4	Lot 12		
Design Flow, gpd	600			
Trench Length, ft.	80	Site reserve		
Trench Width, ft.	3			
Number of Trenches	4	nonwealth of the		
On-Center Spacing, ft.	10	Carolina III		
Usable Width of Area, ft.	33	VAUGHAN MAIRS		
Square Footage Required, sq. ft.	811	/ AOSE #182		
Square Footage Available, sq. ft.	960	Vanha Main		
Installation Depth, in.	42	2 migraes ranks		
Reserve Area Included in Layout	100%	1970		
		Rinorized Onsite Soil English		
☐ Primary and rese	rve areas included in this desig			
☑ Pump system req	uired			
☐ Low pressure sys				
☑ Secondary treatm	·			
<u> </u>	ent recommended			
_	mum from any drainfield)	•		
<u> </u>	num from any drainfield)			
<u> </u>	sion features, etc. required			
<u> </u>	ot on site at time of evaluation			
	on site at time of evaluation			
_	n may be possible with backho	ne review		
	may be peculia with buoling	30 1011011		
Other considerations The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.				
The proposed reserve drainfield will occupy	the lower 4 trenches of the de	emarcated 10-trench layout.		

#### page 3 of 5

## Onsite Soil Consulting, LLC

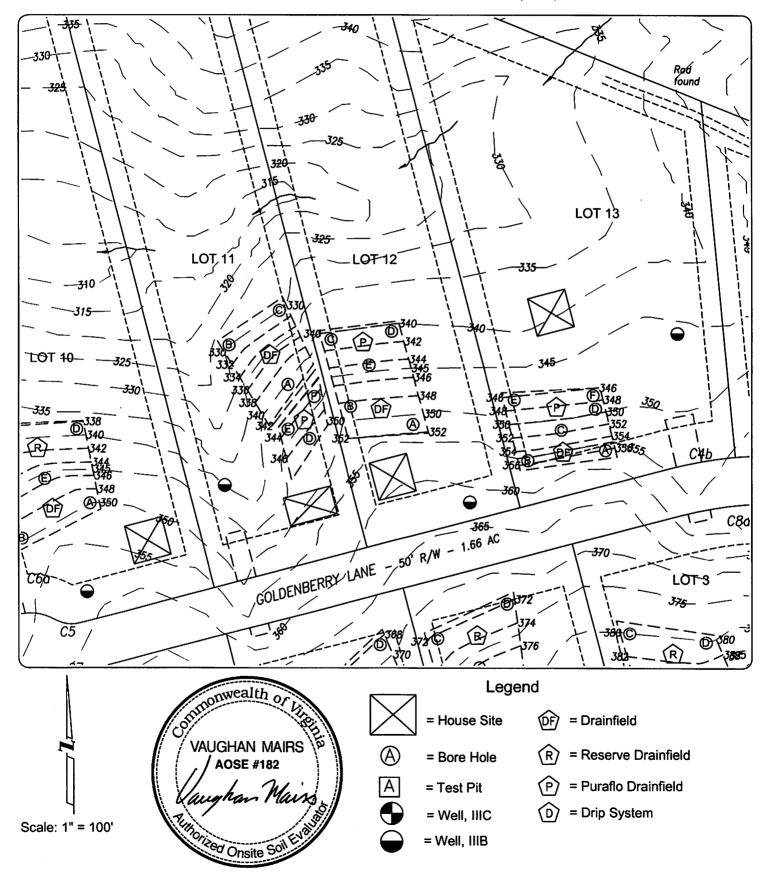
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

#### Sketch of: Lot 12 Hunterston

showing proposed
Drainfield, Well, & House Site



Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 12

Site reserve

Horizon	Depth	Description		Texture
,	•	Hole ID: C	Estimated rate, (min/in): 55@42 inches	Class
ВА	0-6	yellowish brown (10YR5/4) fine sandy clay	y loam	II
Bt	6-24	strong brown (7.5YR5/6) fine clay loam		III
СВ	24-36	strong brown (7.5YR5/6), yellowish brown	(10YR5/4) fine sandy clay loam; few fine mica flakes	: 11
С	36-60	yellowish brown (10YR5/6), light yellowish	n brown (10YR6/4) fine loam; few fine mica flakes	11
		Hole ID: D	Estimated rate, (min/in): 60@42 inches	
Α	0-4	dark grayish brown (10YR4/2) fine sandy loam		II
ВА	4-10	brown (10YR5/3) fine sandy clay loam		II
Bt	10-26	yellowish brown (10YR5/6), strong brown (7.5YR5/6) fine clay loam		111
ВС	26-36	yellowish brown (10YR5/6) light clay loam	and fine sandy clay loam; few fine mica flakes	111
СВ	36-60	yellowish brown (10YR5/4), yellowish brown flakes	wn (10YR5/6) loam to silt loam; common fine mica	11
<del> </del>		Hole ID: E	Estimated rate, (min/in): 65@42 inches	
AB	0-6	brown (7.5YR5/4) fine sandy clay loam		11
Bt	6-30	yellowish red (5YR5/6) fine clay loam		Ш
вс	30-48	strong brown (7.5YR5/6) light clay loam to heavy sandy clay loam — fine		Ш
СВ	48-72	strong brown (7.5YR5/8), brownish yellow mica flakes	v (10YR6/6) fine sandy clay loam to loam; few fine	11



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 12 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

VAUGHAN MAIRS AOSE #182

Orized Onsite

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot:

13

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope & shoulder		
Slope: <u>16%</u>			
Depth to rock or impervious	strata, in.: None	maximum: minimu	ım:
Depth to seasonal water tab	le (gray mottling or co	olor), in.: None	
Free water present:	No Range in i	nches:	
Percolation rate estimated:	Yes	Texture class:	<u>III                                  </u>
		Estimated rate average at depth:	65
		Estimated rate slowest hole:	65
Percolation test preformed:	<u>No</u>	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

<del></del>			
	Project number 03021		
Estimated Perc. Rate, min./in.	65 Lot 13		
Number of Bedrooms	3		
Design Flow, gpd	450 Site primary		
Trench Length, ft.	100		
Trench Width, ft.	3 owealth		
Number of Trenches	3 5 Contronwealth or Line 10		
On-Center Spacing, ft.	10		
Usable Width of Area, ft.	VAUGHAN MAIRS \\(\tilde{\nabla}\) \\ AOSE #182		
Square Footage Required, sq. ft.	1491		
Square Footage Available, sq. ft.	1500 Vaughan Mars		
Installation Depth, in.	42 747		
Reserve Area Included in Layout	0%  Represed Onsite Soil Evolution		
<b>-</b> 4.			
Other features			
☐ Primary and reserve areas included in this design			
☑ Pump system required			
☐ Low pressure system required			
☐ Secondary treatme			
☐ Secondary treatme	ent recommended		
☐ 3C well (100' minin	num from any drainfield)		
🔀 3B well (50' minimu	um from any drainfield)		
Regrading of erosic	on features, etc. required		
☐ Ground control not	on site at time of evaluation		
☐ Thick vegetation or	n site at time of evaluation		
☐ Deeper installation	may be possible with backhoe review		
Other considerations			
The proposed primary drainfield will occupy	the upper 5 trenches of the demarcated 8-trench layout.		
,	,,		

Authorized Onsite Soil Evaluator

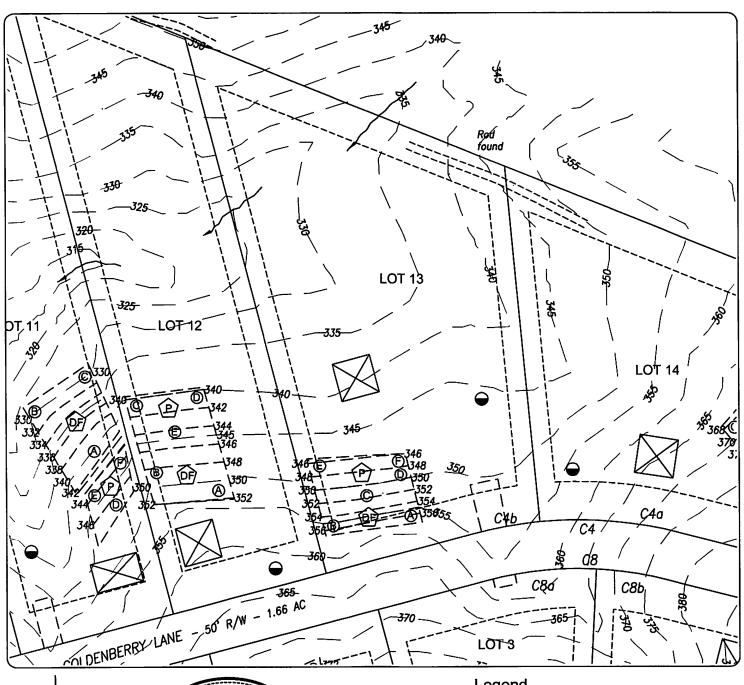
1670 Merrifields Lane, Ruckersville, Virginia 22968

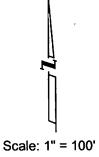
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: **Lot 13** 

# **Hunterston**

showing proposed Drainfield, Well, & House Site









= House Site

= Bore Hole

= Test Pit = Well, IIIC

= Well, IIIB

#### Legend

= Drainfield

= Reserve Drainfield

= Puraflo Drainfield

= Drip System

**Authorized Onsite Soil Evaluator** 

# Soil Profile Descriptions

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 13

Site primary

Horizon	Depth	Description		Textur
### - 12 - 14 - 14 - 14 - 14 - 14 - 14 - 14	······································	Hole ID: A	stimated rate, (min/in): 65@42 inches	Class
ВА	0-6	yellowish brown (10YR5/4) fine sandy clay lo	yellowish brown (10YR5/4) fine sandy clay loam	
Bt	6-30	yellowish red (5YR5/6) fine clay loam		Ш
ВС	30-42	yellowish red (5YR5/8) fine sandy clay loam	light clay loam	H
CB	42-54	yellowish red (5YR5/8), strong brown (7.5YF	R5/6) fine sandy clay loam	11
С	54-66	yellowish brown (10YR5/4), light yellowish brown (10YR6/4), strong brown (7.5YR5/8) fine loam; few fine mica flakes		11
		Hole ID: B	stimated rate, (min/in): 65@42 inches	
Α	0-4	dark grayish brown (10YR4/2) loam		11
ВА	4-12	yellowish brown (10YR5/4) fine sandy clay loam		II
Bt	12-30	yellowish red (5YR5/6) fine clay loam		111
BC	30-44	red (2.5YR4/6) fine sandy clay loam with light clay loam; few fine mica flakes, few quartz fragments		II
СВ	44-60	red (2.5YR4/6), yellowish red (5YR5/6) fine flakes	sandy clay loam and light clay loam; few fine mica	II
		Hole ID: C	stimated rate, (min/in): 65@42 inches	
Α	0-4	grayish brown (10YR5/2) loam		11
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam		H
Bt	12-36	red (2.5YR4/6), yellowish red (5YR5/6) fine clay loam		111
СВ	36-54	yellowish red (5YR5/6), red (2.5YR5/6), light yellowish brown (10YR6/4) fine sandy clay loam and light clay loam		11
С	54-66			II



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 13 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS

Signature:

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone 434 973-0273 Fax: 434 964-1501

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 13

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Slope: <u>13%</u>			
Depth to rock or impervious	strata, in.: N	lone maximum: minimu	m:
Depth to seasonal water tab	ole (gray mottlin	g or color), in.: None	
Free water present:	No Ran	ge in inches:	
Percolation rate estimated:	Yes	Texture class:	<u>III</u>
		Estimated rate average at depth:	75
		Estimated rate slowest hole:	75
Percolation test preformed:	<u>No</u>	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968 Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

#### Purafio™ System

Estimated Perc. Rate, min./in.	75	Project number	03021	
Number of Bedrooms	3	Lot	13	
Design Flow, gpd	450			
Trench Length, ft.	100	Site	reserve	
Trench Width, ft.	3			
Number of Trenches	3	nonwe	alth	
On-Center Spacing, ft.	10		OVER	
Usable Width of Area, ft.	23	Str		
Square Footage Required, sq. ft.	760		N MAIRS \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Square Footage Available, sq. ft.	900		W	
Installation Depth, in.	30	Vaugha	n Mars	
Reserve Area Included in Layout	100%	THE		
		Aliborized On	site Soil	
☐ Primary and reser	rve areas included in this design			
∑ Pump system req	`	<b>5</b>		
☐ Low pressure system required				
☑ Secondary treatment required				
☐ Secondary treatment recommended				
☐ 3C well (100' minimum from any drainfield)				
<u> </u>	num from any drainfield)			
<u> </u>	sion features, etc. required			
_	ot on site at time of evaluation			
<u>_</u>	on site at time of evaluation			
_	n may be possible with backho	ne review		
	may be peed be with bucking	30 1011011		
Other considerations  The demarcated area will serve as a conver	ntional trench-type drainfield fo	or a Puraflo™ (or e	quivalent) system.	
The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 8-trench layout.				
			,	
			·	

#### page 3 of 5

= Reserve Drainfield

= Puraflo Drainfield

= Drip System

## Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

VAUGHAN MAIRS

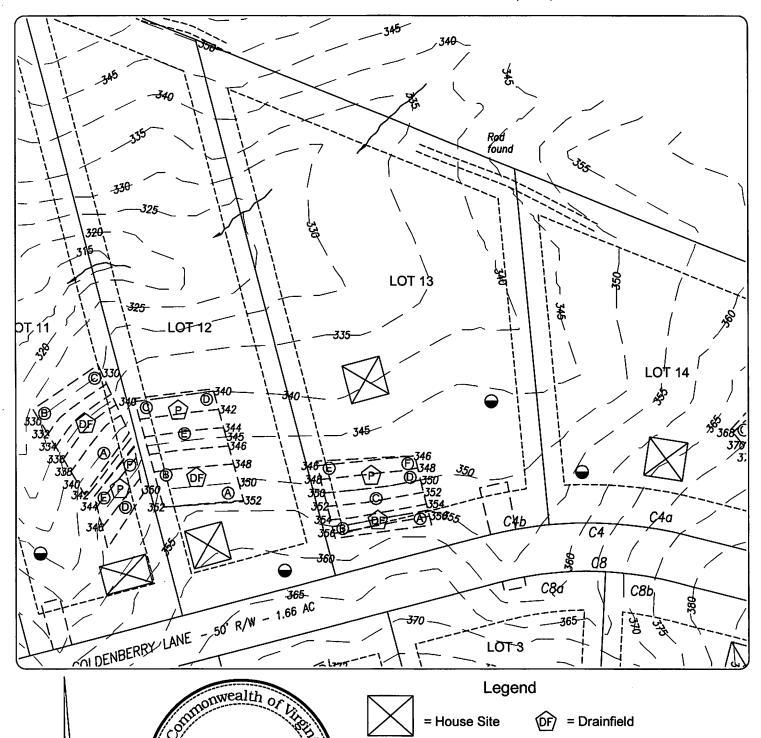
AOSE #182

Authorized Onsite

Scale: 1" = 100'

#### Sketch of: Lot 13 Hunterston

showing proposed
Drainfield, Well, & House Site



= Bore Hole

= Test Pit

= Well, IIIC

= Well, IIIB

Soil Profile Descriptions

Authorized Onsite Soil Evaluator

#### Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 13

Site reserve

Horizon	Depth	Description		Texture
		Hole ID: D	Estimated rate, (min/in): 75@30 inches	Class
Α	0-4	dark grayish brown (10YR4/2) loam		11
ВА	4-12	yellowish brown (10YR5/4) fine sandy cla	y loam	11
ВС	12-38	strong brown (7.5YR5/6) light clay loam		Ш
СВ	38-54	yellowish red (5YR5/6), strong brown (7.5	5YR5/8) fine sandy clay loam with light clay loam	11
С	54-60	strong brown (7.5YR5/8), light yellowish brown (2.5Y6/4) fine sandy clay loam; few black manganese streaks		11
		Hole ID: E	Estimated rate, (min/in): 75@30 inches	
Α	0-3	dark gray (10YR4/1) loam		11
AB	3-12	dark yellowish brown (10YR4/4) fine sandy clay loam		II
Bt	12-48	yellowish red (5YR5/8), yellowish brown	(10YR5/8) fine clay loam	III
ВС	48-60	light yellowish brown (10YR6/4), yellowis loam; few fine mica flakes	h red (5YR5/8) fine sandy clay loam and fine clay	II
		Hole ID: F	Estimated rate, (min/in): 75@30 inches	
Α	0-4	brown (10YR4/3) loam		- 11
ВА	4-10	yellowish brown (10YR5/4) fine sandy clay loam		11
Bt	10-26	brown (7.5YR5/4) fine clay loam		111
Bt2	26-44	yellowish red (5YR5/6), strong brown (7.5	5YR5/6) fine clay loam	Ш
вс	44-54	brownish yellow (10YR6/8), yellowish red (5YR5/6), strong brown (7.5YR5/6) fine clay loam		W <sup>*</sup>



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 13 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS
/ AOSE #182

Signature:

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone 434 973-0273 Fax: 434 964-1501

Thorized Onsite

#### **Authorized Onsite Soil Evaluator**

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 14

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape:	sideslope		
Slope: <u>12%</u>			
Depth to rock or impervious	strata, in.: None	maximum: minim	num:
Depth to seasonal water tab	le (gray mottling or co	lor), in.: None	
Free water present:	No Range in ir	nches:	
Percolation rate estimated:	Yes	Texture class	: <u> </u>
		Estimated rate average at depth	: 65
		Estimated rate slowest hole	: 70
Percolation test preformed:	<u>No</u>	Number of percolation test holes	· :
		Depth of percolation test holes	·
Comments:		Average percolation rate	•
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

	Project number 03021		
Estimated Perc. Rate, min./in.	65 Lot 14		
Number of Bedrooms	3		
Design Flow, gpd	450 Site primary		
Trench Length, ft.	80		
Trench Width, ft.	3		
Number of Trenches	7 monwealth or L		
On-Center Spacing, ft.	10		
Usable Width of Area, ft.	63 / VAUGHAN MAIRS \ \ \ \ \		
Square Footage Required, sq. ft.	1491 AOSE #182		
Square Footage Available, sq. ft.	1680 Vaughan Mairs		
Installation Depth, in.	42		
Reserve Area Included in Layout	0%  Rightorized Onsite Soil Evaluation		
Oth 5	O'Isite 9		
Other features	a areas included in this design		
☐ Primary and reserve areas included in this design ☐ Pump system required			
☐ Low pressure system required			
<u> </u>			
Secondary treatment required			
☐ Secondary treatme			
_	num from any drainfield)		
<u>_</u>	um from any drainfield)		
<u> </u>	on features, etc. required		
☐ Ground control not	on site at time of evaluation		
<u> </u>	n site at time of evaluation		
☐ Deeper installation	may be possible with backhoe review		
Other considerations			
The proposed primary drainfield will occupy	the upper 7 trenches of the demarcated 10-trench layout.		
The pump requirement depends on the final	house location and finish elevation		
The party regarded and make	need to the man of the		
	·		

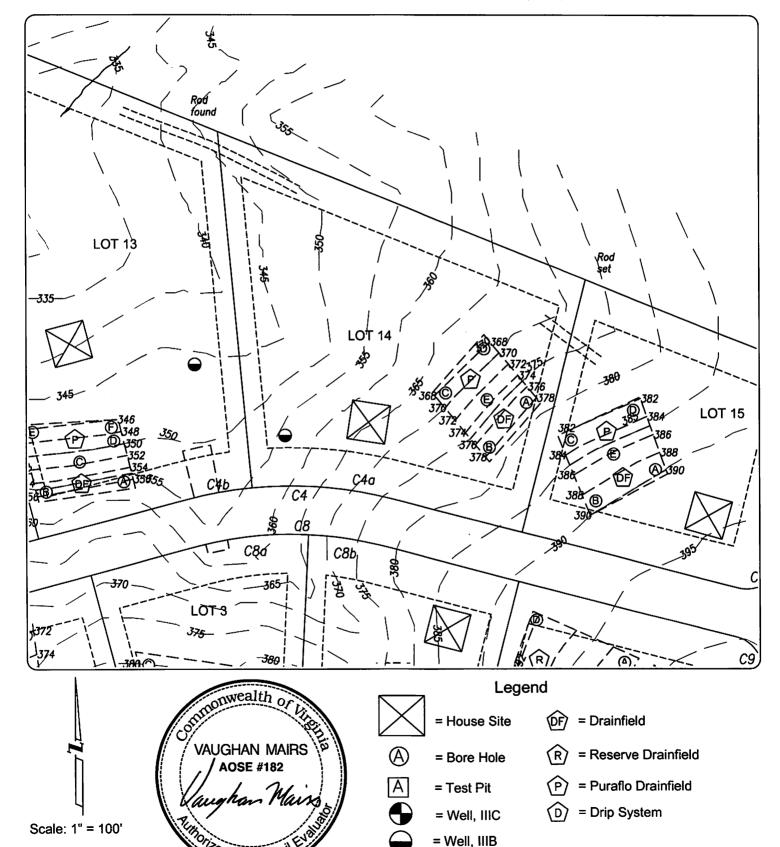
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 14 Hunterston

showing proposed

Drainfield, Well, & House Site



Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

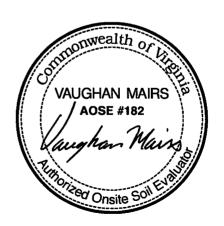
Date of evaluation 2/10/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 14

Site primary

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 55@42 inches	Class
Α	0-4	dark grayish brown (10YR4/2) loam		_ 
BA	4-12	yellowish brown (10YR5/4) fine sandy cla	y loam	11
Bt	12-28	red (2.5YR4/6), yellowish red (5YR5/6) fir	ne clay loam	111
вс	28-38	red (2.5YR4/8) light clay loam; few fine m	ica flakes	111
С	38-60	red (2.5YR5/8), light yellowish brown (10\) mica flakes	YR6/4) fine loam and fine sandy clay loam; few fine	11
		Hole ID: B	Estimated rate, (min/in): 70@42 inches	
Α	0-3	dark grayish brown (10YR4/2) loam		- 11
ВА	3-12	yellowish brown (10YR5/4) fine sandy clay loam		H
Bt	12-36	yellowish red (5YR5/6) fine clay loam		III
ВС	36-60	yellowish red (5YR5/8), reddish yellow (7.	.5YR6/8) light clay loam and fine sandy clay loam	III
		Hole ID: E	Estimated rate, (min/in): 60@42 inches	
Α	0-3	dark grayish brown (10YR4/2) loam		_ 
ВА	3-12	light yellowish brown (10YR6/4) fine sandy clay loam		11
Bt	12-30	yellowish red (5YR5/8) fine clay loam		Ш
ВС	30-42	yellowish red (5YR5/8) light clay loam and fine sandy clay loam		111
СВ	42-60	yellowish red (5YR5/8), strong brown (7.5	YR5/8) fine sandy clay loam and fine loam	H



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 14 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS
/ AOSE #182

thonsed Onsite

Signature:

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone 434 973-0273 Fax: 434 964-1501

**Authorized Onsite Soil Evaluator** 

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 14

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

Position in Landscape: sideslope	· · · · · · · · · · · · · · · · · · ·	
Slope: <u>12%</u>		
Depth to rock or impervious strata, in.:	None maximum: minimu	m:
Depth to seasonal water table (gray m	ottling or color), in.: None	
Free water present: No	Range in inches:	
Percolation rate estimated: Yes	Texture class:	<u>III                                  </u>
	Estimated rate average at depth:	65
	Estimated rate slowest hole:	70
Percolation test preformed: No	Number of percolation test holes:	
	Depth of percolation test holes:	
Comments:	Average percolation rate:	
hand auger evaluation		

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

#### **Puraflo™ System**

Estimated Perc. Rate, min./in.	65 Pro	ject number 03021		
Number of Bedrooms	3	Lot 14		
Design Flow, gpd	450			
Trench Length, ft.	80	Site reserve		
Trench Width, ft.	3			
Number of Trenches [	3	nonwealth or		
On-Center Spacing, ft.	10	A STUTE OF THE STATE OF THE STA		
Usable Width of Area, ft. [	23	O) /S.11		
Square Footage Required, sq. ft. [	659	VAUGHAN MAIRS VA AOSE #182		
Square Footage Available, sq. ft. [	720	1/1/201		
Installation Depth, in.	42	Laughan Mars		
Reserve Area Included in Layout	100%	Tiron Jan		
		Tunorized Onsite Soil Esta		
☐ Primary and reserve	e areas included in this design			
☑ Pump system requir	<del>-</del>			
☐ Low pressure system				
☑ Secondary treatmen	•			
☐ Secondary treatment recommended				
☐ 3C well (100' minimum from any drainfield)				
☑ 3B well (50' minimu	,			
<u> </u>	n features, etc. required	•		
	on site at time of evaluation			
<u> </u>	site at time of evaluation			
	may be possible with backhoe rev	riew		
Other considerations	may be pecalate with buokines for			
The demarcated area will serve as a convention	onal trench-type drainfield for a P	uraflo™ (or equivalent) system.		
The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 10-trench layout.				
		•		
	·-			

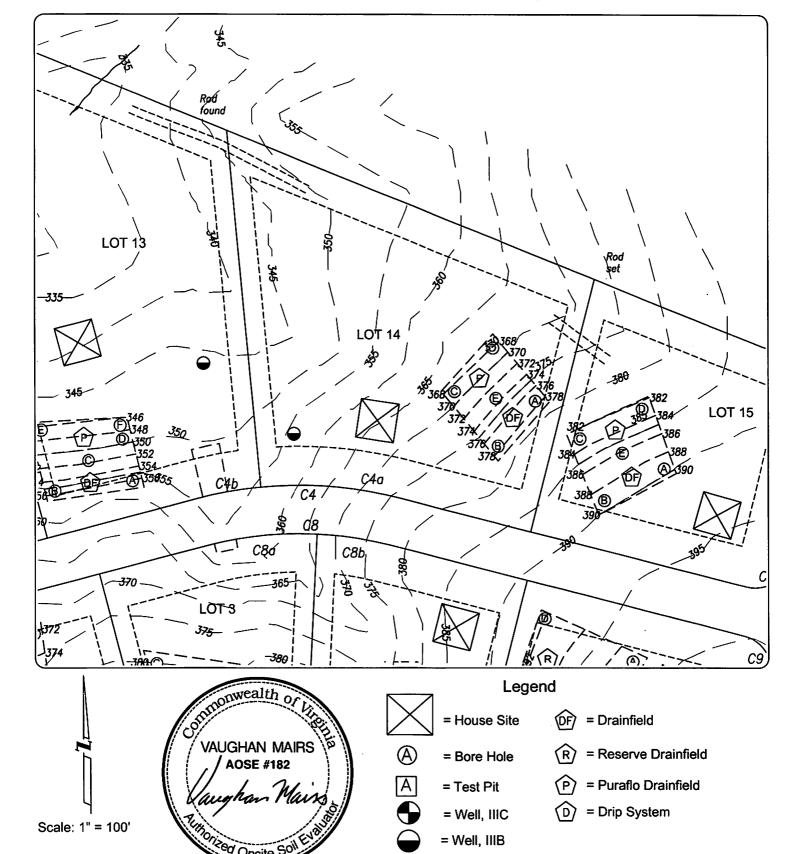
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 14 Hunterston

showing proposed

Drainfield, Well, & House Site



**Authorized Onsite Soil Evaluator** 

# Soil Profile Descriptions

#### Date of evaluation 2/10/2006

**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}

**Lot** 14

Site reserve

Horizon	Depth	Description		Texture
And the state of t		Hole ID: C	Estimated rate, (min/in): 70@42 inches	Class
Α	0-3	dark grayish brown (10YR4/2) loam		- 
BA	3-12	light reddish brown (2.5YR6/4) fine sandy	clay loam	II
Bt	12-50	yellowish red (5YR5/8) fine clay loam		III
ВС	50-60	yellowish red (5YR5/8), brownish yellow (10YR6/6), strong brown (7.5YR5/6) fine sandy clay loam and light clay loam; common fine mica flakes		
		Hole ID: D	Estimated rate, (min/in): 65@42 inches	
Α	0-3	dark grayish brown (10YR4/2) loam		- 11
ВА	3-12	light yellowish brown (10YR6/4) fine sandy clay loam		
Bt	12-36	yellowish red (5YR5/8) fine clay loam		111
ВС	36-48	yellowish red (5YR5/8), brown (7.5YR5/4) fine clay loam and fine sandy clay loam; few fine mica flakes		Ш
С	48-60	reddish brown (2.5YR4/4), strong brown (7.5YR5/8) fine loam to silt loam; few light clay loam tongues, many fine mica flakes		II
		Hole ID: E	Estimated rate, (min/in): 60@42 inches	
Α	0-3	dark grayish brown (10YR4/2) loam		- 11
BA	3-12	light yellowish brown (10YR6/4) fine sandy clay loam		11
Bt	12-30	yellowish red (5YR5/8) fine clay loam		111
ВС	30-42	yellowish red (5YR5/8) light clay loam and fine sandy clay loam		111
СВ	42-60	yellowish red (5YR5/8), strong brown (7.5YR5/8) fine sandy clay loam and fine loam		II



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 14 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS

Signature:

#### **Authorized Onsite Soil Evaluator**

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter 10200 Old Hunt Road

Vienna, VA 703-938-9899

**Owner:** 

Date: 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

Lot:

15

Site: primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

605, Shannon Hill Rd.

	Position in Landscape: sid	eslope	
	Slope: <u>10-12%</u>		
	Depth to rock or impervious stra	ata, in.: None maximum: mir	nimum:
	Depth to seasonal water table (	gray mottling or color), in.: None	
	Free water present: No	Range in inches:	
	Percolation rate estimated:	<u>/es</u> Texture cla	ass: III
•		Estimated rate average at dep	oth: 60
		Estimated rate slowest he	ole: 65
	Percolation test preformed: _1	Number of percolation test hol	les:
		Depth of percolation test hol	les:
	Comments:	Average percolation ra	ate:
	hand auger evaluation		

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

	Project number 03021			
Estimated Perc. Rate, min./in.	60 Lot 15			
Number of Bedrooms	3			
Design Flow, gpd	450 Site primary			
Trench Length, ft.	90			
Trench Width, ft.	3 6 Contractive althory			
Number of Trenches	6 Stronweard or V			
On-Center Spacing, ft.	10			
Usable Width of Area, ft.	53 / VAUGHAN MAIRS \□ \□ / AOSE #182			
Square Footage Required, sq. ft.	1360 / AUSE #162			
Square Footage Available, sq. ft.	1620 Laughan Mars			
Installation Depth, in.	42 72			
Reserve Area Included in Layout	0%  Reported Onsite Soil Evolution			
	91310			
Other features				
☐ Primary and reserve areas included in this design				
☐ Pump system required				
☐ Low pressure system required				
☐ Secondary treatme	ent required			
☐ Secondary treatme	ent recommended			
☐ 3C well (100' minin	num from any drainfield)			
☒ 3B well (50' minim	um from any drainfield)			
☐ Regrading of erosi	on features, etc. required			
☐ Ground control not	on site at time of evaluation			
☐ Thick vegetation o	n site at time of evaluation			
☐ Deeper installation	may be possible with backhoe review			
Other considerations				
The proposed primary drainfield will occupy the upper 6 trenches of the demarcated 9-trench layout.				
The proposed printing draining will ecoupy the apper a denotics of the demandated a denot layout.				

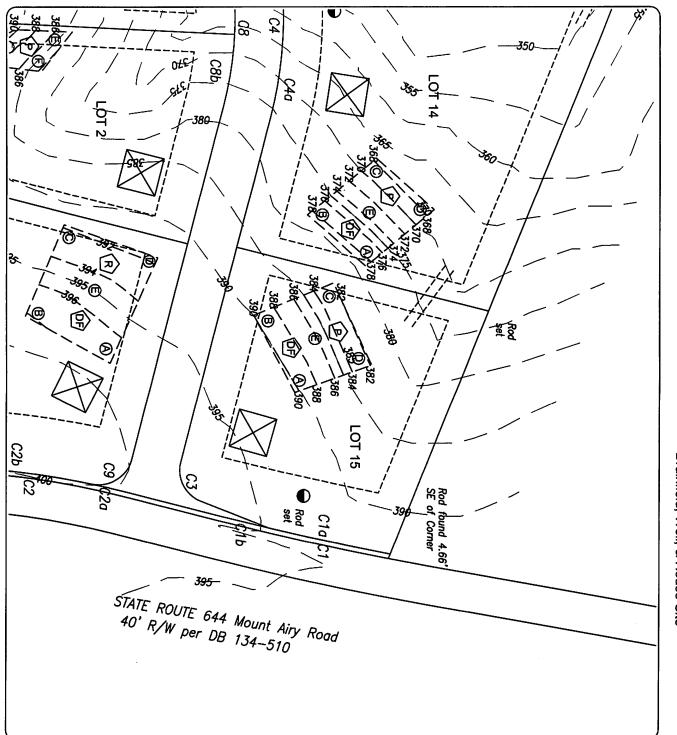
**Authorized Onsite Soil Evaluator** 

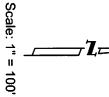
1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 15

Hunterston

Drainfield, Well, & House Site showing proposed

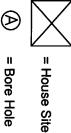








Legend











℗



= Puraflo Drainfield

0 = Drip System

Soil Profile Descriptions Authorized Onsite Soil Evaluator

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 15

Site primary

Horizon	Depth	Description		Texture
		Hole ID: A	Estimated rate, (min/in): 65@42 inches	Class
Α	0-3	dark grayish brown (10YR4/2) loam		 
BA	3-10	yellowish brown (10YR5/4) fine sandy cla	y loam	11
Bt	10-36	red (2.5YR4/6) fine clay loam		111
ВС	36-48	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes		III
СВ	48-66	red (2.5YR5/6), light brown (7.5YR6/4) fine loam; few fine mica flakes		11
		Hole ID: B	Estimated rate, (min/in): 60@42 inches	
AB	0-8	brown (7.5YR5/4), yellowish brown (10YR5/4) fine sandy clay loam — gravelly		
Bt	8-36	red (2.5YR4/6) clay loam		III
ВС	36-40	red (2.5YR4/8), reddish brown (2.5YR5/4) light clay loam; common weathered schist fragments, few quartz fragments		III
СВ	40-60	red (2.5YR4/8) heavy fine sandy clay loam; few fine mica flakes		11
		Hole ID: E	Estimated rate, (min/in): 55@42 inches	
Α	0-2	grayish brown (10YR5/2) loam		
AB	2-10	yellowish brown (10YR5/4) fine sandy clay loam		II
Bt	10-36	red (2.5YR4/6) clay loam		III
СВ	36-64	red (2.5YR5/6), yellowish red (5YR5/6) fine sandy clay loam		11



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 15 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature:

Bonzed Onsite Soil E

VAUGHAN MAIRS

**Authorized Onsite Soil Evaluator** 

# Soil Evaluation Report

Project number: 03021

Applicant: Stanford L. & Donna P. Hunter

10200 Old Hunt Road

Vienna, VA 703-938-9899

Owner:

**Date:** 3/27/2006

**Health Department:** 

Louisa

**Project name:** 

"Hunterston," a division of {TM 70-46}

**Lot:** 15

Site: reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR

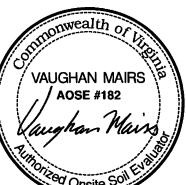
605, Shannon Hill Rd.

Position in Landscape:	sideslope		
Slope: <u>10-12%</u>			
Depth to rock or impervious	s strata, in.:	None maximum: minimu	ım:
Depth to seasonal water ta	ble (gray m	ottling or color), in.: None	
Free water present:	No	Range in inches:	
Percolation rate estimated	Yes_	Texture class:	1111
		Estimated rate average at depth:	60
		Estimated rate slowest hole:	60
Percolation test preformed	: <u>No</u>	Number of percolation test holes:	
		Depth of percolation test holes:	
Comments:		Average percolation rate:	
hand auger evaluation			

#### Name and title of evaluator:

D. Vaughan Mairs, AOSE #182 1670 Merrifields Lane Ruckersville, Virginia 22968

Tel: 434-973-0273, Fax: 434-964-1501



# Abbreviated Drainfield Design

#### **Puraflo™ System**

Estimated Perc. Rate, min./in.	60	Project number 0302	1		
Number of Bedrooms	3	Lot 15			
Design Flow, gpd	450				
Trench Length, ft.	90	Site reser	ve		
Trench Width, ft.	3				
Number of Trenches	3	anonwealth of			
On-Center Spacing, ft.	10	String			
Usable Width of Area, ft.	23	VAUGHAN MAIF	S. [E.]]		
Square Footage Required, sq. ft.	608	/ AOSE #182	\ <b>\</b>		
Square Footage Available, sq. ft.	810	1/2 1 W			
Installation Depth, in.	42	Laughan Ma			
Reserve Area Included in Layout	100%	THAT			
		Ray Onsite Soil			
☐ Primary and rese	rve areas included in this desi				
☑ Pump system req		9			
_					
☐ Low pressure system required ☐ Secondary treatment required					
_	ent recommended				
<u> </u>	imum from any drainfield)				
<u></u>	num from any drainfield)				
·	sion features, etc. required				
_	ot on site at time of evaluation				
_	on site at time of evaluation				
<u> </u>	n may be possible with backh	oe review			
·					
Other considerations  The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.					
The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 9-trench layout.					

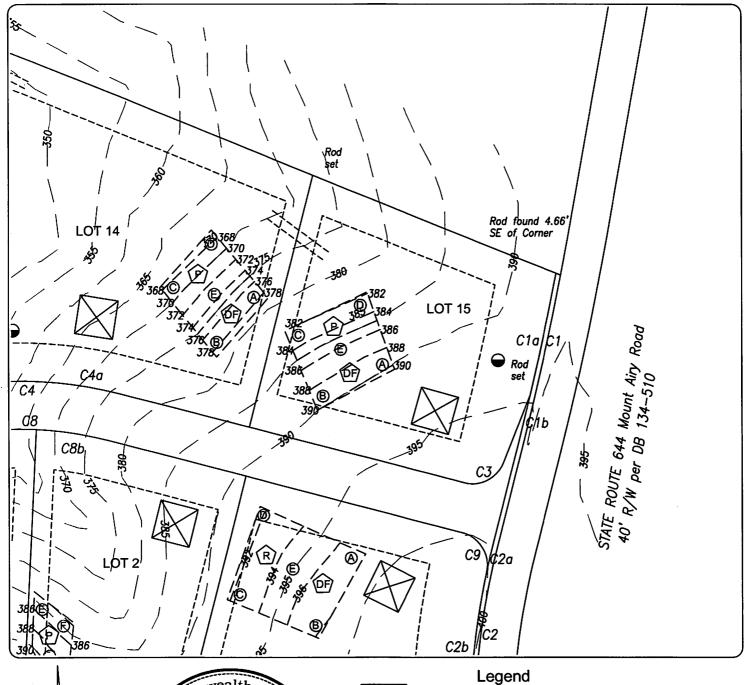
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone: 434-973-0273 Fax: 434-964-1501

Sketch of: Lot 15 Hunterston

showing proposed

Drainfield, Well, & House Site









= House Site

(DF)

= Drainfield

= Bore Hole

(R)

= Reserve Drainfield

Α

= Test Pit

= Well, IIIC



= Well, IIIB

**户** =

= Puraflo Drainfield

(D)

) = Drip System

Authorized Onsite Soil Evaluator

# Soil Profile Descriptions

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

**Lot** 15

Site reserve

Horizon	Depth	Description		Texture
		Hole ID: C	Estimated rate, (min/in): 60@42 inches	Class
Α	0-2	brown (10YR4/3) loam		- 
ВА	2-10	brown (7.5YR5/4) fine sandy clay loam		H
Bt	10-36	red (2.5YR4/8) fine clay loam; few quartz	fragments	III
вс	36-48	red (2.5YR5/6) heavy fine sandy clay loar	n	П
СВ	48-60	red (2.5YR5/6), light brown (7.5YR6/4) fin	e loam to silt loam	П
		Hole ID: D	Estimated rate, (min/in): 60@42 inches	
Α	0-3	dark grayish brown (10YR4/2) loam		- 11
ВА	3-10	yellowish brown (10YR5/4) fine sandy clay loam		II
Bt	10-36	red (2.5YR4/6) fine clay loam		Ш
СВ	36-48	red (2.5YR4/8), yellowish red (5YR5/8) fine sandy clay loam and light clay loam; few fine mica flakes		II
С	48-66	reddish brown (5YR5/4), reddish yellow (5YR6/8), light yellowish brown (10YR6/4) fine loam; few fine mica flakes		ti
		Hole ID: E	Estimated rate, (min/in): 55@42 inches	Ī
Α	0-2	grayish brown (10YR5/2) loam		11
AB	2-10	yellowish brown (10YR5/4) fine sandy clay loam		11
Bt	10-36	red (2.5YR4/6) clay loam		Ш
CB	36-64	red (2.5YR5/6), yellowish red (5YR5/6) fine sandy clay loam		II



## Certification Statement

Date: 3/27/2006

Project number:

03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 15 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 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 Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

VAUGHAN MAIRS

ed Onsite

Signature:

1670 Merrifields Lane, Ruckersville, Virginia 22968 Phone 434 973-0273 Fax: 434 964-1501