

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 12/8/2015 between Riley W. Overstreet referred to here as "Landowner", and Bio-Nomic Svc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Redford Cty. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
226 A 29	22602500	226 A 15A	90511064
226 3 3	22610400	226 A 15	22601100
226 3 2	22610300		
226 3 1	22610200		

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<u>Riley W. Overstreet</u>	<u>Riley W. Overstreet</u>	<u>5689 SML PKWY</u>
Landowner - Printed Name, Title	Signature	Mailing Address
		<u>Huddleston</u>

Permittee:

Bio-Nomic Svc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>Vaughan" Buck" Stevenson</u>	<u>Vaughn "Buck" S</u>	<u>516 Rowntree Rd</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		<u>Charlotte, NC. 28217</u>

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services Inc County or City: Bedford County
Landowner: Riley W. Overstreet

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

12-8-15
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services County or City: Bedford County
Landowner: Riley W. Overstreet Jr

Landowner Site Management Requirements:

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Riley Wayne Overstreet Jr
Landowner's Signature

12-9-15
Date

Printer-Friendly

[View In Map](#)

Tax Map #

Link

Parcel Number(RPC).

Address

226 A 15A

226 A 15A

90511064

SMITH MTN LAKE PARKWAY

[Link to Real Estate Lookup/Sketch](#)

Parcel Information

Valuation

Improvements

Ownership History

General Information

Owner:

OVERSTREET RILEY W SR &
OVERSTREET R

Legal Acreage:

94.9800

Additional Owner:

PCDesc:

6 Agricultural/Undeveloped(100+ac)

Owner Address:

5689 SMITH MTN LAKE PKWY
HUDDLESTON, VA 24104

Legal Description:

NR HUDDLESTON TRACT 2 PB 37/88

Document Number:

Land Use

Tax Year: 2011

2012

2013

2014

2015

2016

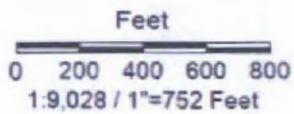
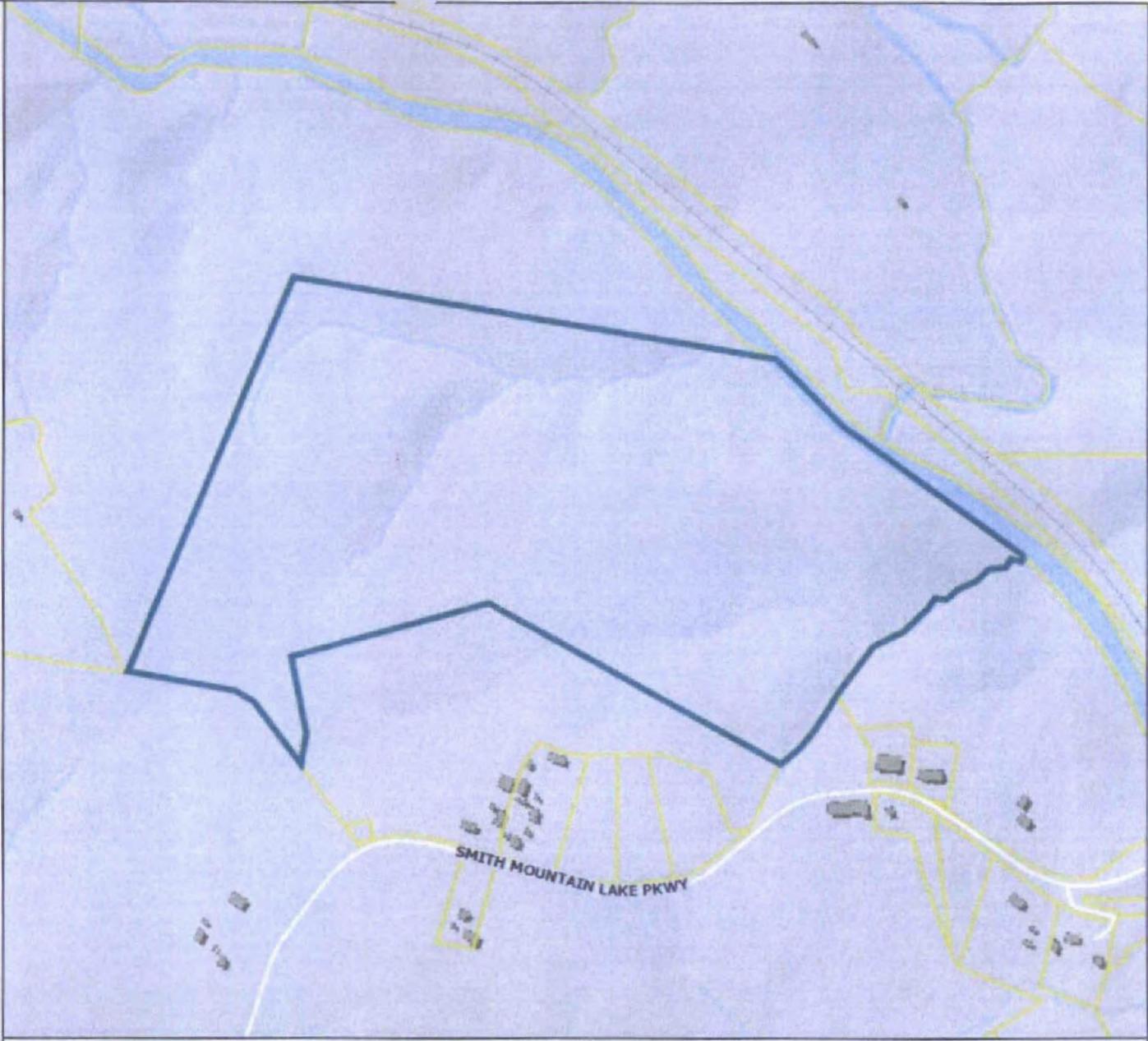
ROSS-1
PART ROSS-2
ROSS-4
ROSS-5
PART ROSS-6

Bedford, VA

Legend

- Highway
 - Blue Ridge Parkway
 - US Primary
 - Virginia Primary
- Roads
- Parcels - County
- Parcels - Town
- Public School Boundary

R085-1
PART R085-2
R085-4
R085-5
PART R085-6



Title: Overstreet Riley W Sr & Overstreet R 226 A 15A

Date: 4/1/2016

90511064
DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Bedford County is not responsible for its accuracy or how current it may be.

[Printer-Friendly](#)

[View in Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 A 15	226 A 15	22601100	5689 SMITH MTN LAKE PARKWAY

[Link to Real Estate Lookup/Sketch](#)

[Parcel Information](#) Valuation Improvements Ownership History

General Information

Owner:	OVERSTREET RILEY W SR & OVERSTREET R	Legal Acreage:	25.0000
Additional Owner:		PCDesc:	5 Agricultural/Undevl(20-99ac)
Owner Address:	5689 SMITH MTN LAKE PKWY HUDDLESTON , VA 24104	Legal Description:	NR HUDDLESTON TRACT 1
		Document Number:	980013754

Land Use

- Tax Year:
- 1997
 - 1998
 - 1999
 - 2000
 - 2001
 - 2002
 - 2003
 - 2004
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
 - 2010
 - 2011
 - 2012
 - 2013
 - 2014
 - 2015
 - 2016

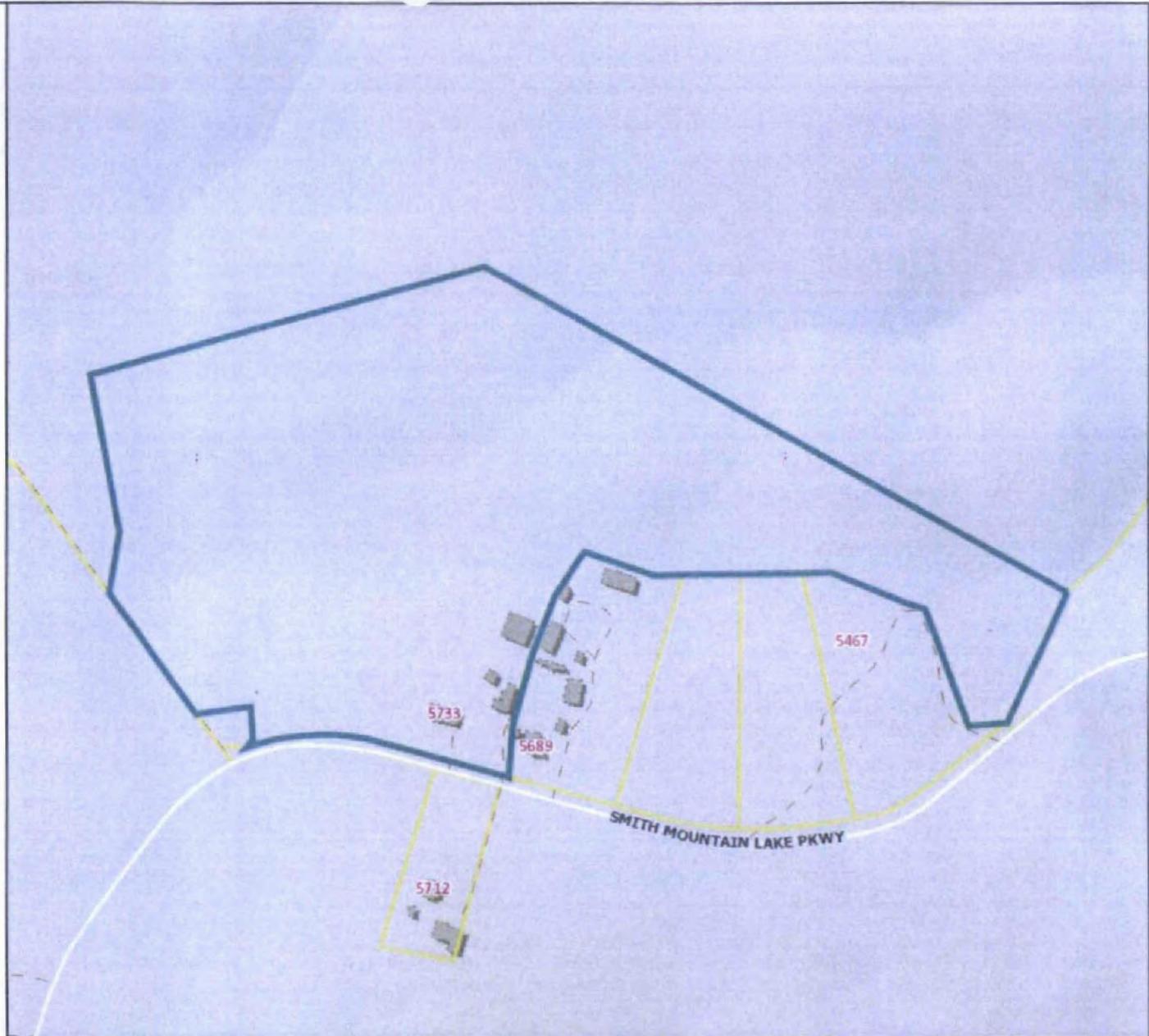
PART 2085-2
PART 2085-6

Bedford, VA

Legend

- E911 Address
- Highway
- Blue Ridge Parkway
- US Primary
- Virginia Primary
- Roads
- Driveway
- Parcels - County
- Parcels - Town
- Public School Boundary

PART 2085-2
PART 2085-4



Title: Overstreet Riley W Sr & Overstreet R 226 A 15

Date: 4/1/2016

22601100
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VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services, Inc County or City: Bedford County
Landowner: Clarice D. Overstreet

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
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 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Clarice D. Overstreet
Landowner's Signature

12/8/15
Date

Printer-Friendly

[View in Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 3 1	226 3 1	22610200	5689 SMITH MTN LAKE PARKWAY

[Link to Real Estate Lookup/Sketch](#)

Parcel Information

Valuation

Improvements

Ownership History

General Information

Owner:	OVERSTREET RILEY W &	Legal Acreage:	3.0300
Additional Owner:	CLARICE D	PCDesc:	2 Single Family Res(1-19.99ac)
Owner Address:	5689 SMITH MTN LAKE PKWY HUDDLESTON , VA 241043974	Legal Description:	A A & M F OVERSTREET LT 1
		Document Number:	

PART ROSS-6

Bedford, VA

Legend

- E911 Address
- Highway
- Blue Ridge Parkway
- US Primary
- Virginia Primary
- Roads
- Driveway
- Parcels - County
- Parcels - Town
- Public School Boundary

PART ROSS-6



Title: Overstreet Riley W & Clarice D 226 3 1 22610200

Date: 4/1/2016

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[Printer-Friendly](#)

[View In Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 3 2	226 3 2	22610300	

[Link to Real Estate Lookup/Sketch](#)

Parcel Information Valuation Improvements Ownership History

General Information

Owner:	OVERSTREET RILEY W SR & CLARICE D	Legal Acreage:	2.0600
Additional Owner:		PCDesc:	2 Single Family Res(1-19.99ac)
Owner Address:	5689 SMITH MTN LAKE PKWY HUDDLESTON , VA 241043974	Legal Description:	A A & M F OVERSTREET LT 2
		Document Number:	060007287

Land Use

- Tax Year:** 2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

PART 2085-4

Bedford, VA

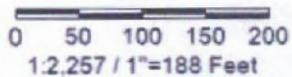
Legend

- E911 Address
- Highway
- Blue Ridge Parkway
- US Primary
- Virginia Primary
- Roads
- Driveway
- Parcels - County
- Parcels - Town
- Public School Boundary

PART ROSS-6



Feet



Title: Overstreet Riley W Sr & Clarice D 226 3 2

Date: 4/1/2016

22610300
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Printer-Friendly

[View In Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 3 3	226 3 3	22610400	

[Link to Real Estate Lookup/Sketch](#)

Parcel Information Valuation Improvements Ownership History

General Information

Owner:	OVERSTREET RILEY W SR & CLARICE D	Legal Acreage:	2.0600
Additional Owner:		PCDesc:	2 Single Family Res(1-19.99ac)
Owner Address:	5689 SMITH MTN LAKE PKWY HUDDLESTON , VA 241043974	Legal Description:	A A & M F OVERSTREET LT 3
		Document Number:	060007286

Land Use

- Tax Year:** 2007
2008
2009
2010
2011
2012
2013
2014
2015
2016

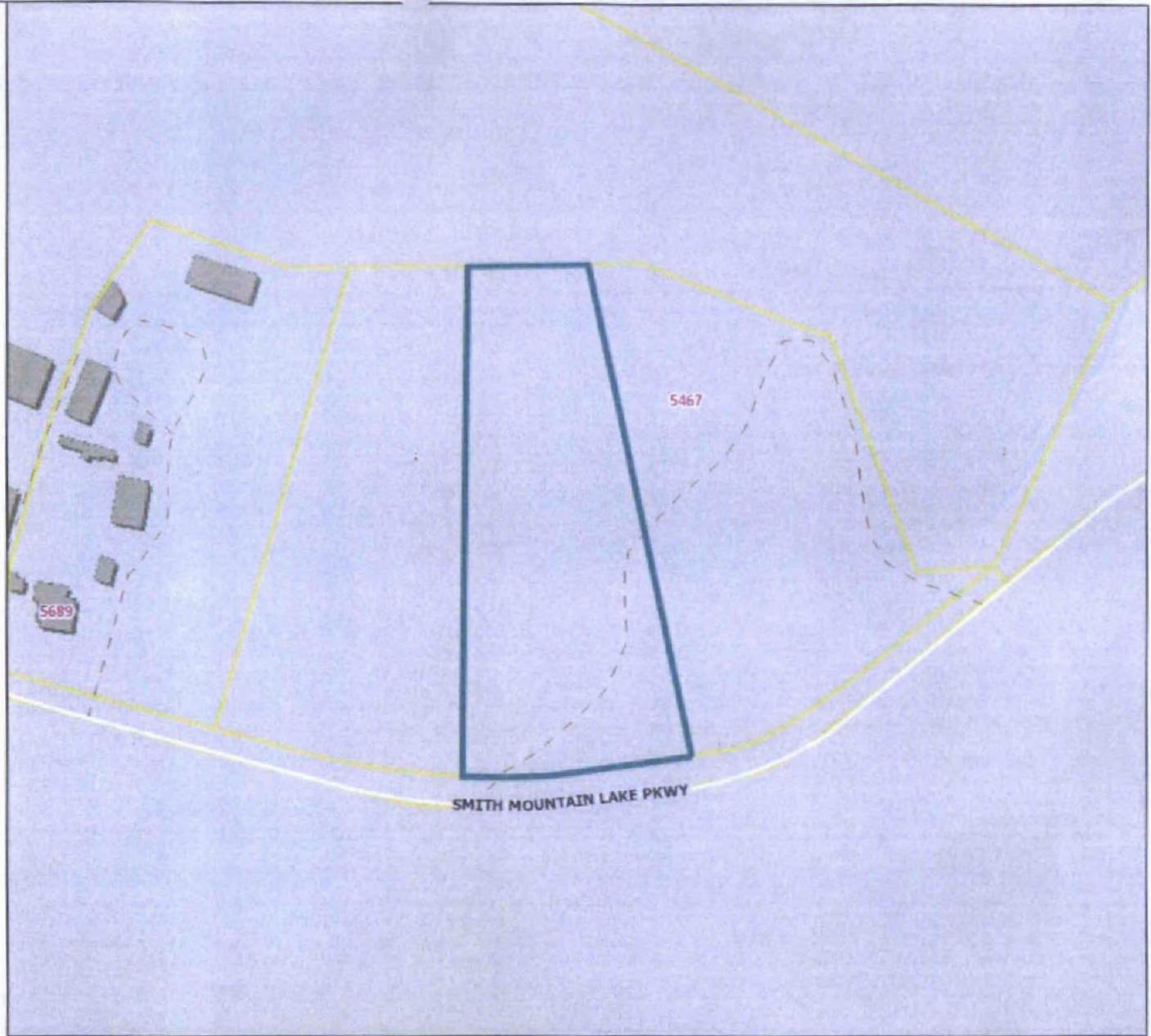
PART R085-6

Bedford, VA

Legend

- E911 Address
- Highway
 - Blue Ridge Parkway
 - US Primary
 - Virginia Primary
- Roads
 - Driveway
- Parcels - County
- Parcels - Town
- Public School Boundary

PART 12085-6



Title: **Overstreet Riley W Sr & Clarice D 226 3 2**

Date: 4/1/2016

22610300

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Feet

0 50 100 150 200
1:2,257 / 1"=188 Feet

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 12/9/2016 between Holly O. Hogan referred to here as "Landowner", and Bio-Nomic Svc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Redford Cty, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
226 3 4	22610500		

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
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Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
 Yes No Yes No Yes No Yes No

Holly O. Hogan
 Landowner - Printed Name, Title

Holly O. Hogan
 Signature

5467 SML PKWY
Huddleston VA 24104
 Mailing Address

Permittee:

Bio-Nomic Svc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Vaughn Buck-Stevenson
 Permittee - Authorized Representative
 Printed Name

Vaughn Buck
 Signature

576 Rowntree Rd
Charlotte, NC 28217
 Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services
Landowner: Holly O. Hogan

County or City: Redford County

Landowner Site Management Requirements:

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Holly Hogan
Landowner's Signature

12/9/15
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 12/9/2019 between Thomas L. Hogan referred to here as "Landowner", and Bio-Novic Svc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Bedford City, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
226 3 4	22610500		

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Thomas Lee Hogan
Landowner - Printed Name, Title

[Signature]
Signature

5467 Smith mtn lake Pkwy
Bedford VA 24104
Mailing Address

Permittee:

Bio-Novic Svc. the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Vaughan "Buck" Stevenson
Permittee - Authorized Representative
Printed Name

[Signature]
Signature

576 Rountree Rd
Charlotte, NC 28117
Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services County or City: Bedford County
Landowner: Thomas L. Hogan

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

12/9/2015
Date

Printer-Friendly

[View in Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 3 4	226 3 4	22610500	5467 SMITH MOUNTAIN LAKE PKY

[Link to Real Estate Lookup/Sketch](#)

Parcel Information Valuation Improvements Ownership History

General Information

Owner:	HOGAN HOLLY NICOLE OVERSTREET & HOGA	Legal Acreage:	2.6300
Additional Owner:		PCDesc:	2 Single Family Res(1-19.99ac)
Owner Address:	5467 SMITH MTN LAKE PKWY HUDDLESTON , VA 24104	Legal Description:	A A & M F OVERSTREET LT 4
		Document Number:	080001221

Land Use

Tax Year: 2007
2008
2009

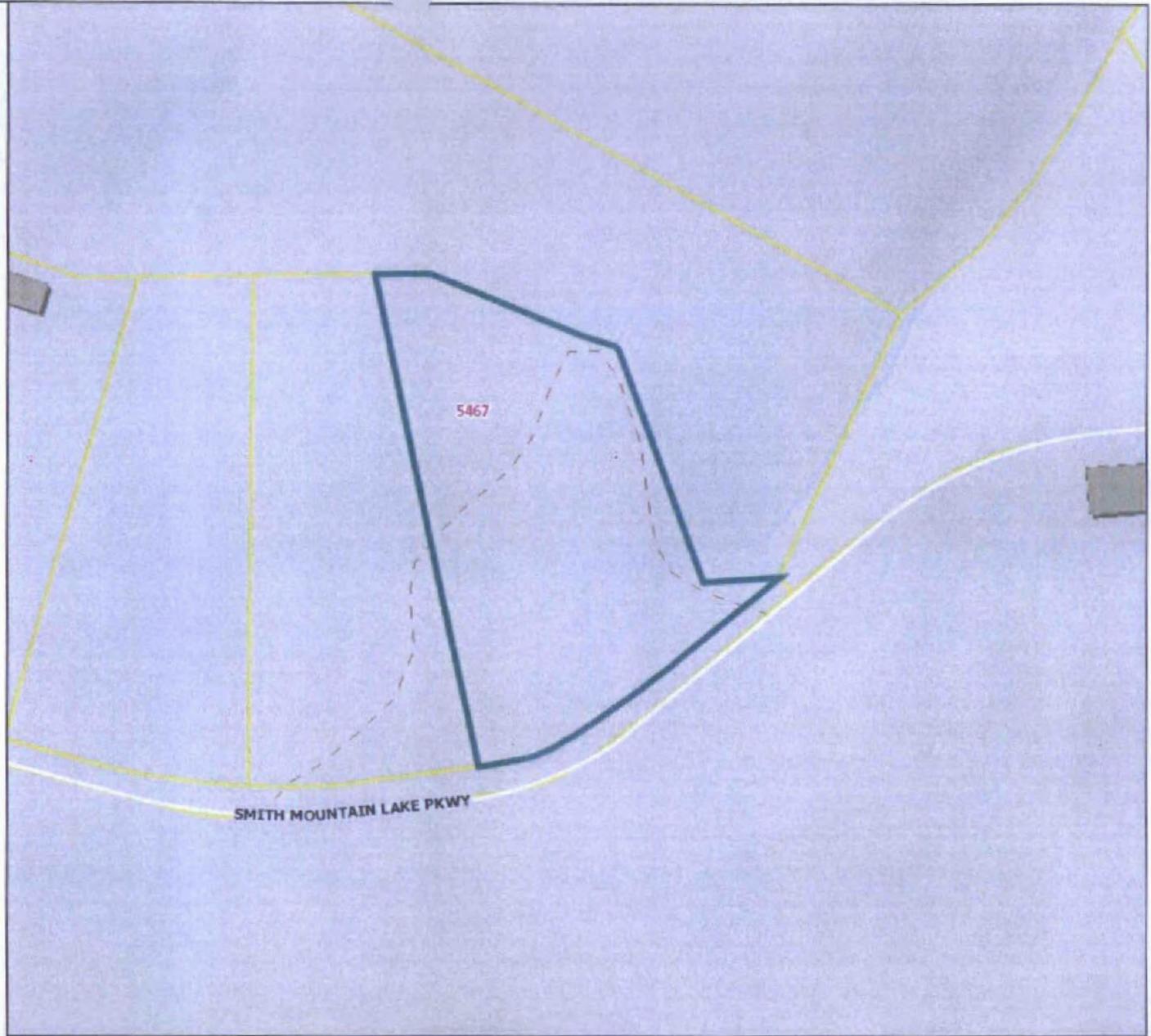
PART 2085-6

Bedford, VA

Legend

- E911 Address
- Highway
- Blue Ridge Parkway
- US Primary
- Virginia Primary
- Roads
- Driveway
- Parcels - County
- Parcels - Town
- Public School Boundary

PART RO85-6



Title: Hogan Holly Nicole OVRST & Hoga 226 3 4

Date: 4/1/2016

22610500

This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Bedford County is not responsible for its accuracy or how current it may be.

Feet

0 50 100 150 200
1:2,257 / 1"=188 Feet

Printer-Friendly

[View In Map](#)

Tax Map #	Link	Parcel Number(RPC)	Address
226 A 29	226 A 29	22602500	

[Link to Real Estate Lookup/Sketch](#)

- Parcel Information**
- Valuation
- Improvements
- Ownership History

General Information

Owner:	OVERSTREET RILEY W SR & CLARICE D	Legal Acreage:	57.8500
Additional Owner:		PCDesc:	5 Agricultural/Undevl(20-99ac)
Owner Address:	5689 SMITH MTN LAKE PKWY HUDDLESTON , VA 241043974	Legal Description:	CRAB ORCH
		Document Number:	

Land Use

- Tax Year:
- 1997
 - 1998
 - 1999
 - 2000
 - 2001
 - 2002
 - 2003
 - 2004
 - 2005
 - 2006
 - 2007
 - 2008
 - 2009
 - 2010
 - 2011
 - 2012
 - 2013
 - 2014
 - 2015
 - 2016

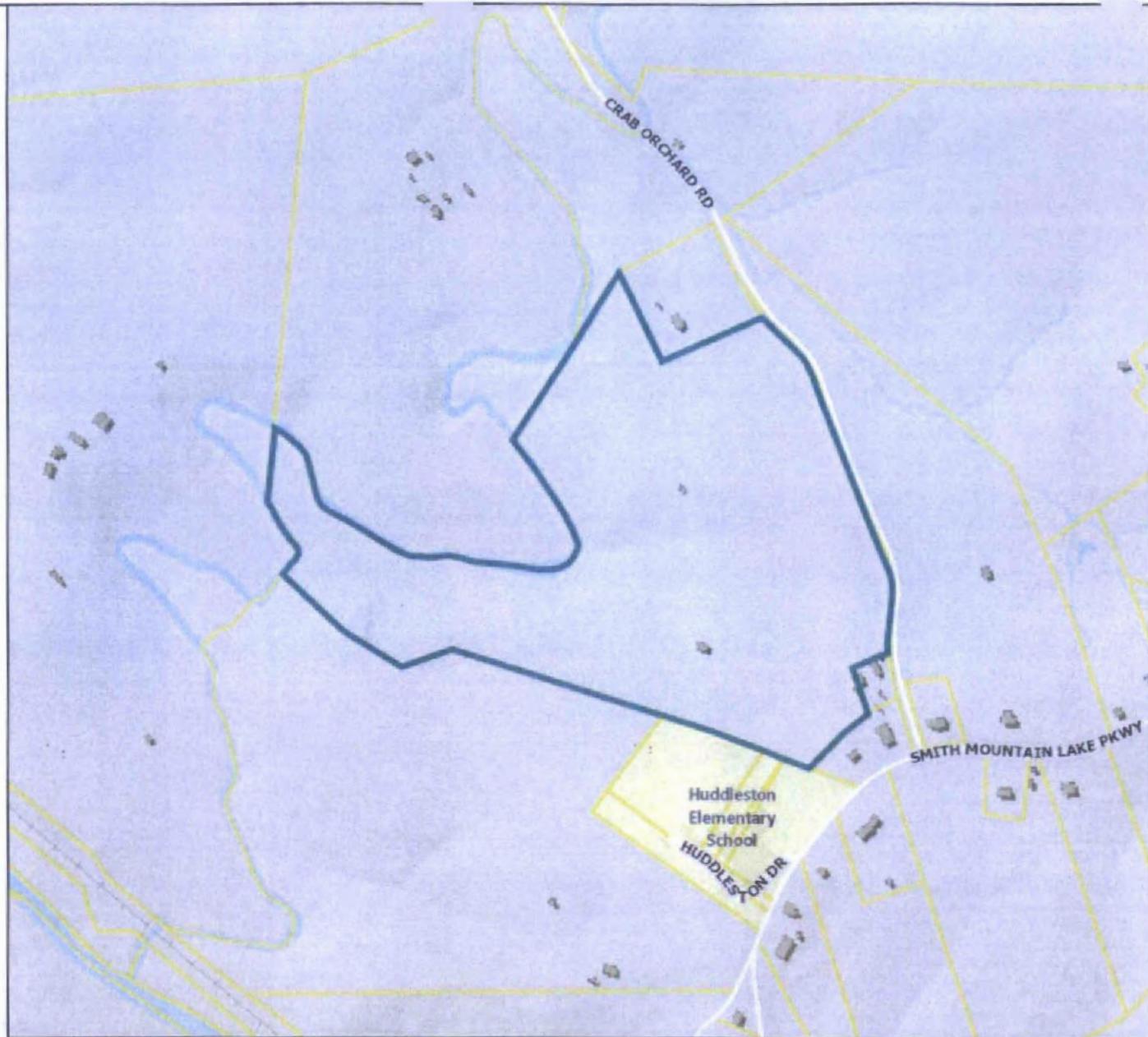
2085-7

Bedford, VA

Legend

- Highway
 - Blue Ridge Parkway
 - US Primary
 - Virginia Primary
- Roads
- Parcels - County
- Parcels - Town
- Public School Boundary

ROES-7



Feet

0 200 400 600 800
1:9,028 / 1"=752 Feet

Title: Overstreet Riley W Sr & Clarice 226 A 29 22602500

Date: 4/1/2016

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Bedford County is not responsible for its accuracy or how current it may be.

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services, Inc. County or City: Bedford County
Landowner: Douglas L. Cooper

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Douglas L. Cooper
Landowner's Signature

12/9/15
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Bio-Nomic Services, Inc.

County or City: Bedford County

Landowner: Lillie N. Cooper

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

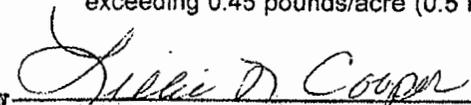
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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Landowner's Signature

12-9-15
Date

Printer-Friendly

[View In Map](#)

Tax Map #	Link	Parcel Number(RPC).	Address
226 A 16	226 A 16	22601200	4115 & 4117 CRAB ORCHARD ROAD

[Link to Real Estate Lookup/Sketch](#)

Parcel Information Valuation Improvements Ownership History

General Information

Owner:	COOPER DOUGLAS LEE & LILLIE N	Legal Acreage:	114.6800
Additional Owner:		PCDesc:	6 Agricultural/Undev(100+ac)
Owner Address:	4115 CRAB ORCHARD RD HUDDLESTON , VA 24104	Legal Description:	CRAB ORCH
		Document Number:	

Land Use

- Tax Year:
- 2005
 - 2006
 - 2007
 - 2008
 - 2009
 - 2010
 - 2011
 - 2012
 - 2013
 - 2014
 - 2015
 - 2016

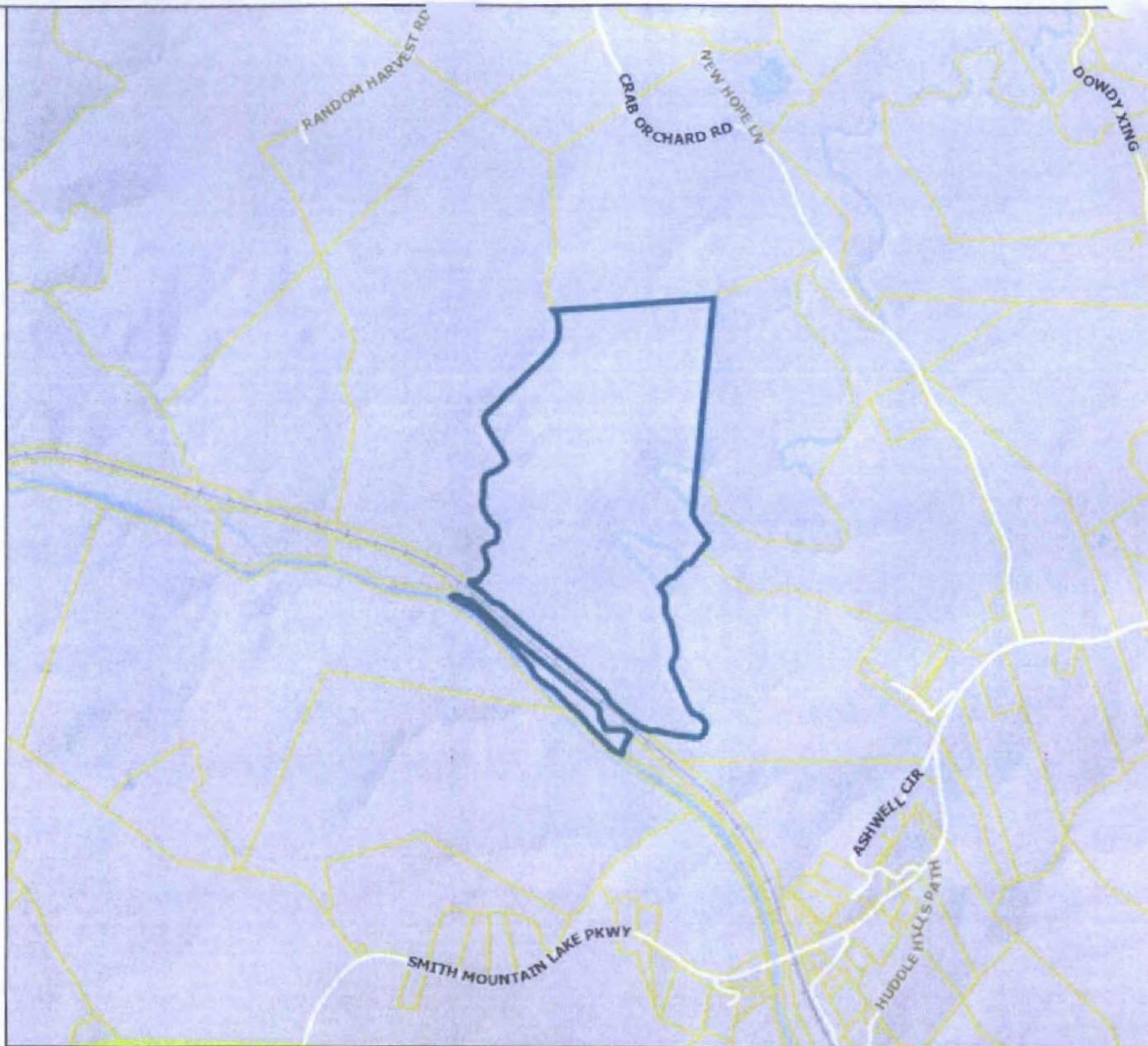
RO85-8
RO85-9
RO85-10

Bedford, VA

Legend

- Highway
 - Blue Ridge Parkway
 - US Primary
 - Virginia Primary
- Roads
- Parcels - County
- Parcels - Town

RO85-8
RO85-9
RO85-10



Title: Cooper Douglas L & Lillie N 226 A 16 22601200

Date: 5/3/2016

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Bedford County is not responsible for its accuracy or how current it may be.

1085



BIO-NOMIC SERVICES, INC.

516 Rountree Road • Charlotte, North Carolina 28217 • (704)-529-0000 • Fax (704)-529-1648
Specializing in today's needs for environmental protection.

Virginia Department of Environmental Quality
Lynchburg Office
7705 Timberlake Road
Lynchburg, VA
Attn: Mattie Witt

Ms. Witt,

I, Holly Hagan, am applying to have biosolids generated by the Western Virginia Water Authority applied to my farmland located in Bedford County, Virginia by Bio-Nomic Services, Inc.

I am terminating any agreements with Synagro Central, LLC that have been previously signed by me as a part of any application by Synagro to apply biosolids to my Bedford County farmland.

I also understand that VA DEQ requirements state that only one biosolids contractor may be permitted on an individual site, and existing agreements must be terminated before new permits are issued for another biosolids contractor.

Sincerely,

Holly A Hagan Signature

1/6/16 Date

LAND NOT PERMITTED
UNDER SYNAGRO

2085



BIO-NOMIC SERVICES, INC.

516 Rountree Road • Charlotte, North Carolina 28217 • (704)-529-0000 • Fax (704)-529-1648
Specializing in today's needs for environmental protection.

Virginia Department of Environmental Quality
Lynchburg Office
7705 Timberlake Road
Lynchburg, VA
Attn: Mattie Witt

Ms. Witt,

I, Thomas Lee Hogan, am applying to have biosolids generated by the Western Virginia Water Authority applied to my farmland located in Bedford County, Virginia by Bio-Nomic Services, Inc.

I am terminating any agreements with Synagro Central, LLC that have been previously signed by me as a part of any application by Synagro to apply biosolids to my Bedford County farmland.

I also understand that VA DEQ requirements state that only one biosolids contractor may be permitted on an individual site, and existing agreements must be terminated before new permits are issued for another biosolids contractor.

Sincerely,

Thomas L. Hogan Signature

Jan 6, 2016 Date

LAND NOT
PERMITTED UNDER
SYNAGRO

Riley Overstreet Farm

Bio-Nomic Services, Inc. is filing this application to apply approved (VA0025020) Class B biosolids to this designated farm land in Bedford County, Virginia.

The farm is located in the Huddleston community off Smith mountain Lake Parkway and Crab Orchard Road. All fields are located in a predominately agricultural areas. All streams, drainage features, rock outcrops, structures, dwellings, property lines, roadways and wells are designated and buffered as required. There is one public contact sites in the vicinity of the farm. See the attached buffer maps for more details. Biosolids are currently being used as crop nutrients on close by farms, and have been used on this farm by another biosolids contractor.

Mr. Overstreet operates his acreage as either hay production/pasture. The grass cover in the hayfields/ pastures is predominately fescue.

The current fescue hay fields are: RO 85-2, 85-6, 85-7, 85-8, 85-9, 85-10.

The current fescue pastures are: RO 85-1, 85-4, 85-5.

Nutrient Management Plans will be written by a certified plan writer to address the application of biosolids to the designated fields that will address the most recent planned use of the fields should any changes occur in agricultural practices.



A Brownlee Ave SE, Roanoke, VA 24014

1 hr 01 min, 39.3 mi

B 5805 Smith Mountain Lake Pkwy, Huddleston, VA 24104

Light traffic (57 min without traffic)
Via VA-24, VA-24 E

Riley Overstreet
RO 85-1,2,4,5,6
Next to Jackie Preston

A Brownlee Ave SE, Roanoke, VA 24014

↑	1. Depart Brownlee Ave SE toward Kindred St SE	161 ft
↘	2. Turn right onto Kindred St SE	479 ft
↘	3. Turn right onto Carlisle Ave SE , and then immediately turn right onto Bennington St SE	0.8 mi
↘	4. Turn right onto VA-24 Pass Hess in 1.0 mi	2.2 mi
↑	5. Keep left to stay on VA-24 E / Bypass Rd	0.4 mi
↘	6. Turn right to stay on VA-24 E Pass Exxon in 4.4 mi	19.1 mi, 26 min
↘	7. Turn right onto VA-122 / Moneta Rd Pass Marathon in 2.7 mi	4.9 mi
↙	8. Turn left onto White House Rd	6.0 mi
↙	9. Turn left onto Smith Mountain Lake Pkwy	5.8 mi
	10. Arrive at Smith Mountain Lake Pkwy The last intersection is Carters Mill Rd If you reach Old Bridge Rd, you've gone too far	

B 5805 Smith Mountain Lake Pkwy, Huddleston, VA 24104



- (A) **Brownlee Ave SE, Roanoke, VA 24014**
 (B) **Crab Orchard Rd, Huddleston, VA 24104**

1 hr 03 min, 40.7 mi

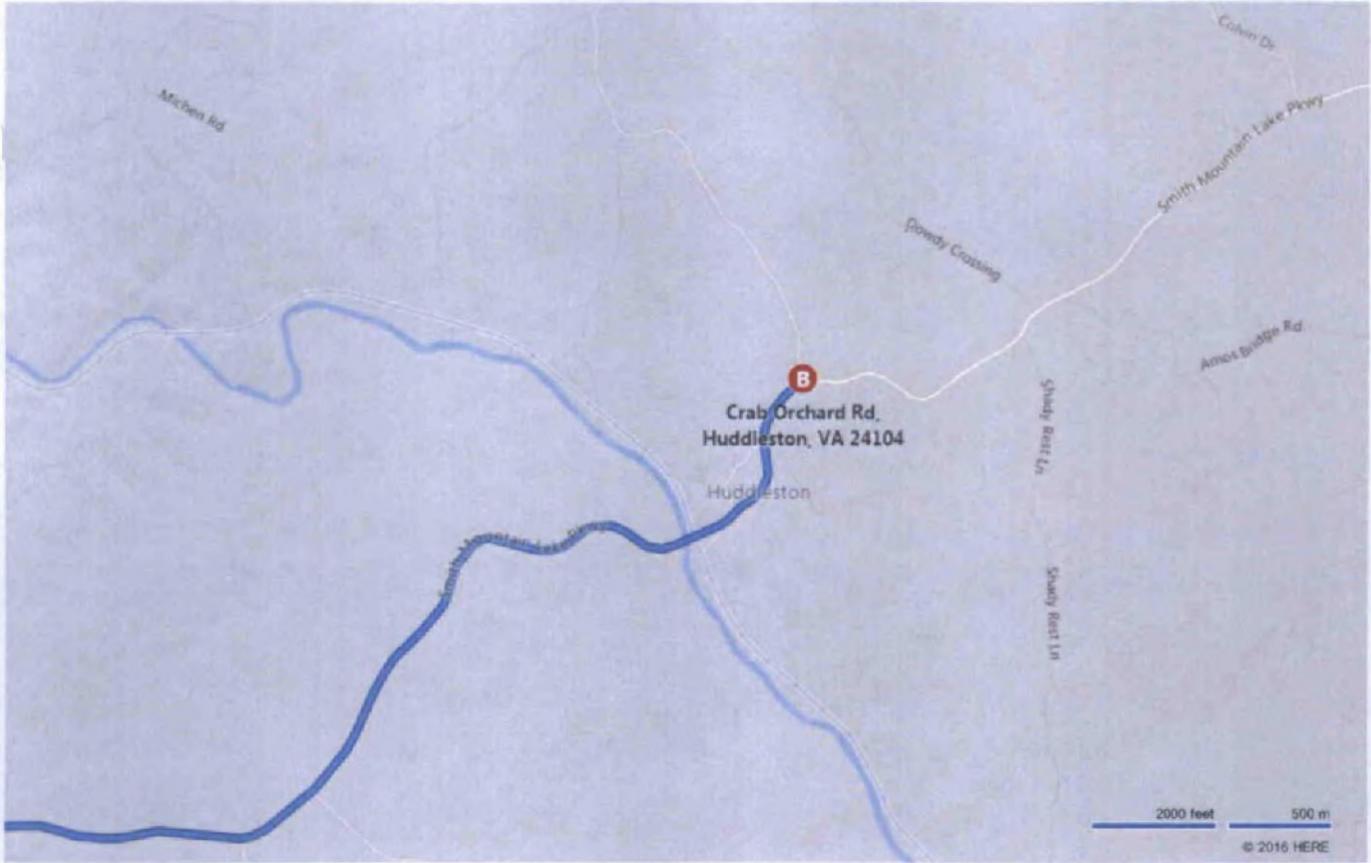
Light traffic (59 min without traffic)
 Via VA-24, Smith Mountain Lake Pkwy

Riley Overstreet
 RO 85 7,8,9,10

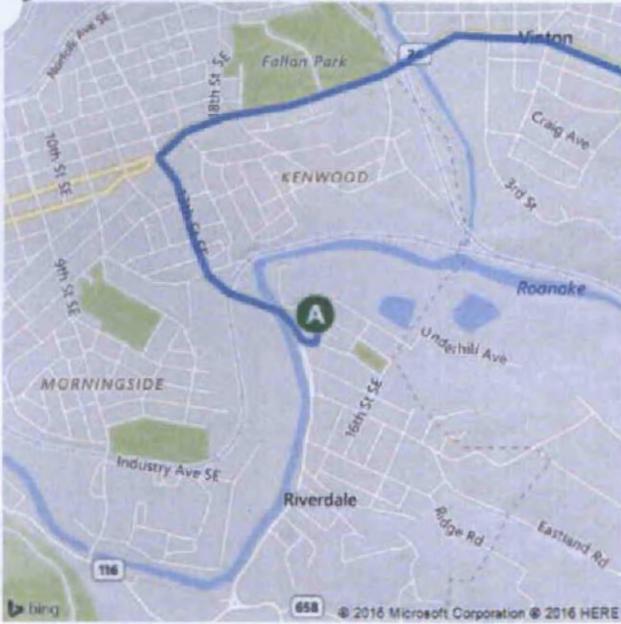
- (A) **Brownlee Ave SE, Roanoke, VA 24014**

↑	1. Depart Brownlee Ave SE toward Kindred St SE	161 ft
↘	2. Turn right onto Kindred St SE	479 ft
↘	3. Turn right onto Carlisle Ave SE , and then immediately turn right onto Bennington St SE	0.8 mi
↘	4. Turn right onto VA-24 Pass Hess in 1.0 mi	2.2 mi
↑	5. Keep left to stay on VA-24 E / Bypass Rd	0.4 mi
↘	6. Turn right to stay on VA-24 E Pass Exxon in 4.4 mi	19.1 mi, 26 min
↘	7. Turn right onto VA-122 / Moneta Rd Pass Marathon in 2.7 mi	4.9 mi
↙	8. Turn left onto White House Rd	6.0 mi
↙	9. Turn left onto Smith Mountain Lake Pkwy	7.2 mi
↙	10. Turn left onto Crab Orchard Rd	62 ft
	Arrive at Crab Orchard Rd on the left	
	11. The last intersection is Smith Mountain Lake Pkwy If you reach New Hope Ln, you've gone too far	

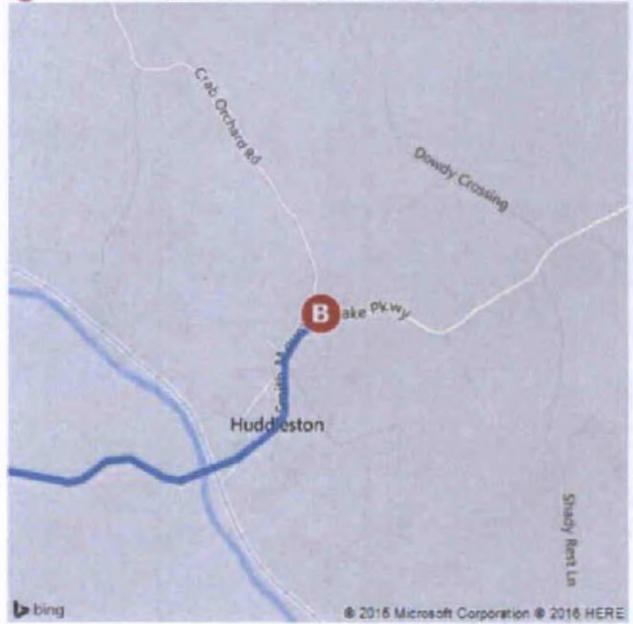
Crab Orchard Rd, Huddleston, VA 24104



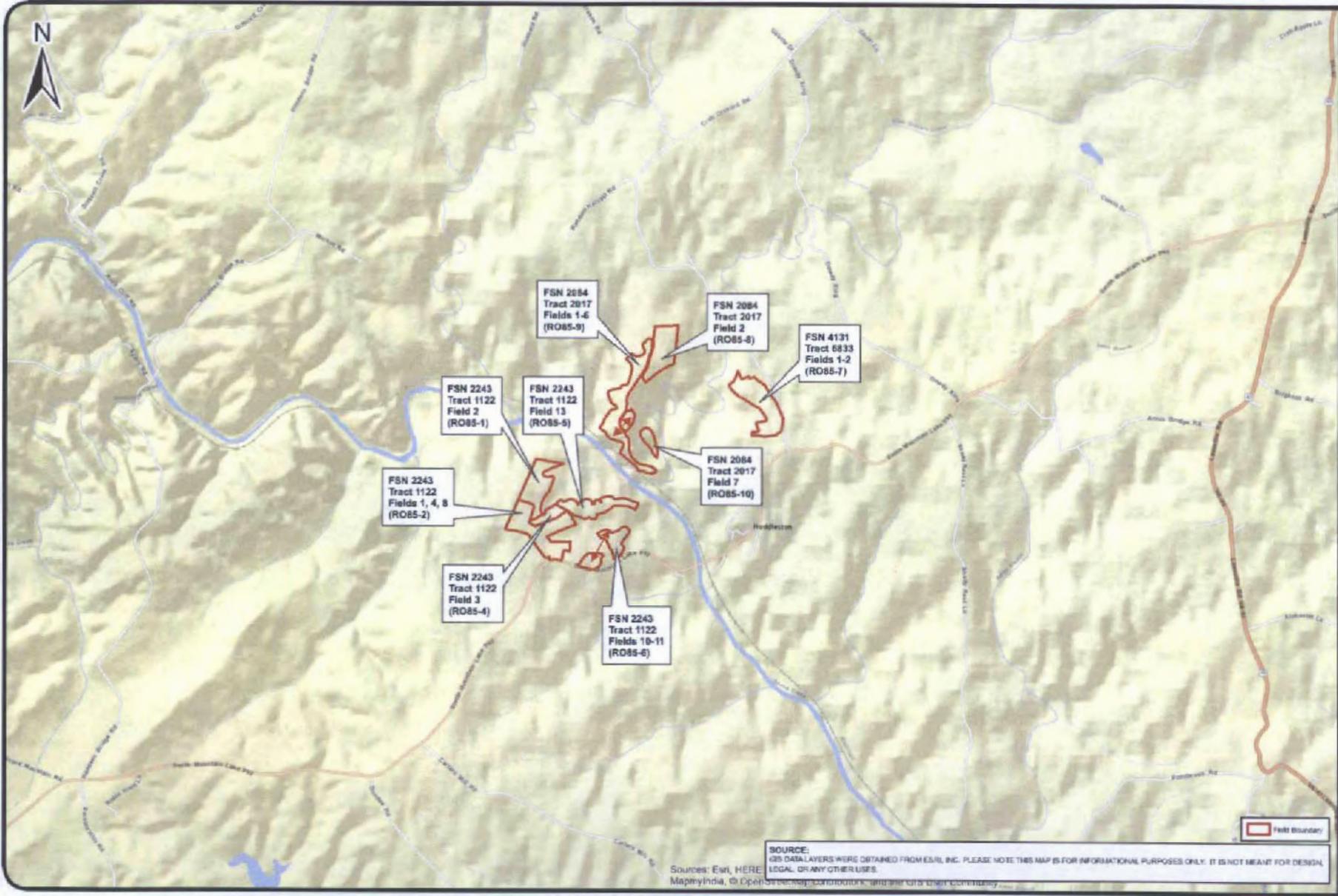
A Brownlee Ave SE, Roanoke, VA 24014



B Crab Orchard Rd, Huddleston, VA 24104



These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2016 HERE™.



Sources: Esri, HERE, DeLorme, Mapbox, OpenStreetMap contributors, and the GIS user community

SOURCE:
 GIS DATA LAYERS WERE OBTAINED FROM ESRI, INC. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN OR LEGAL OR ANY OTHER USE.

DATE	03.28.2016
DRAWN BY	MEM
PROJECT NO.	15-18 Ph:01
ENGINEERING LICENSE NO.	
CHECKED BY	MEM

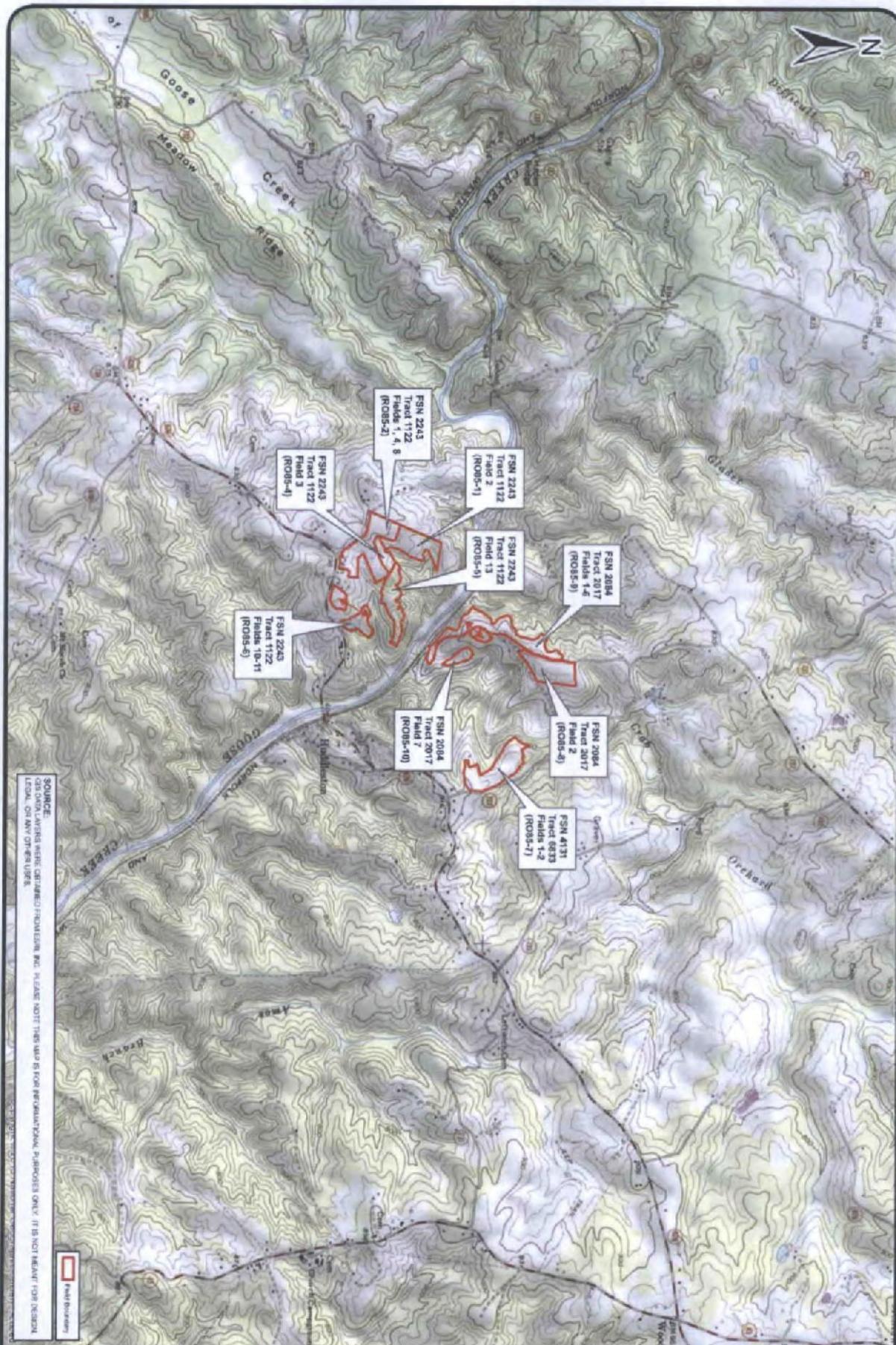


BIO-NOMIC SERVICES, INC.

VICINITY MAP - RILEY OVERSTREET
 CITY OF ROANOKE
 LAND APPLICATION PROGRAM
 BEDFORD COUNTY, VIRGINIA

FIGURE NO.
1

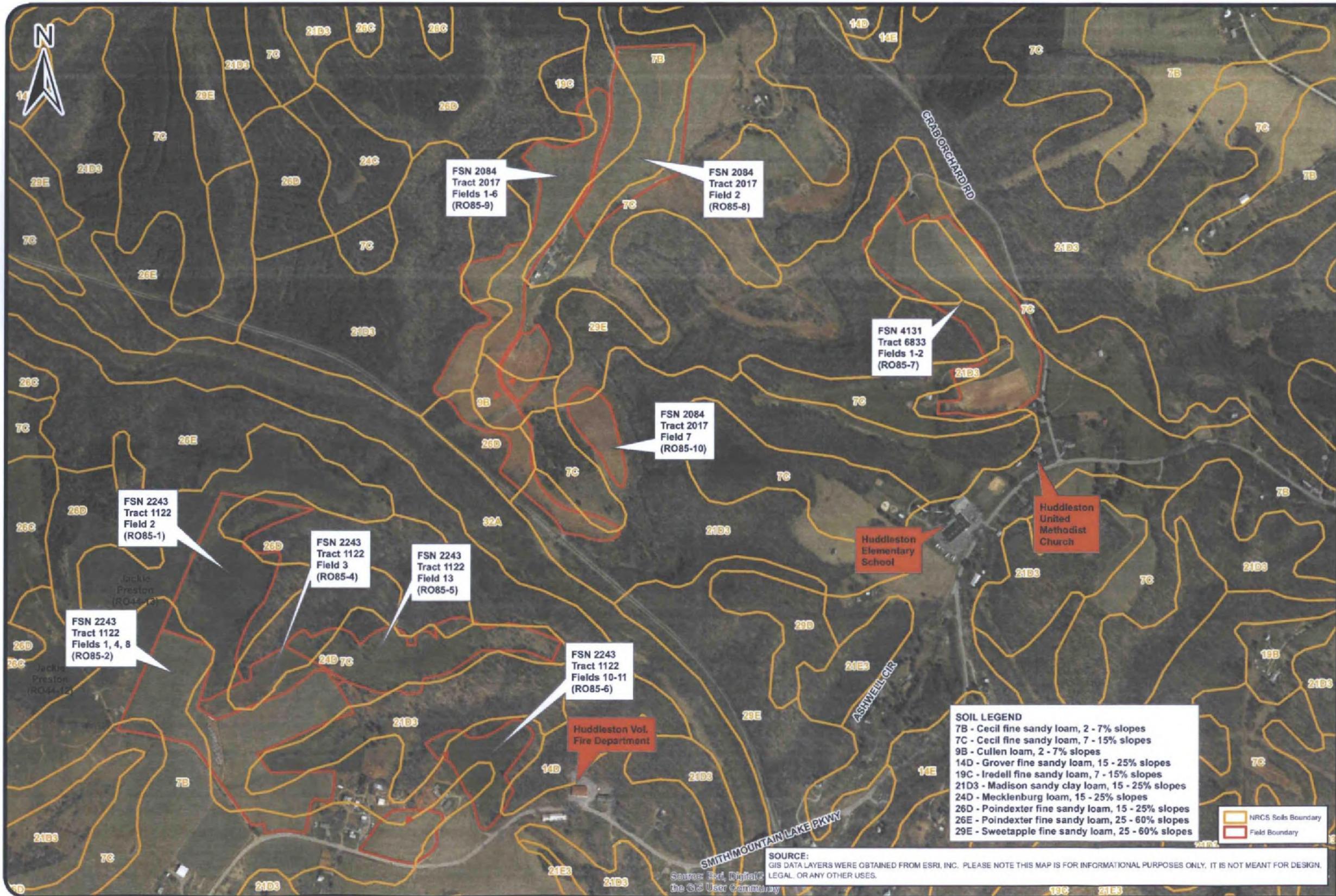
C:\arcgis\2015\1508\04\015 Bio-nomic\015 Riley Overstreet\015 Riley Overstreet.mxd



SOURCE:
 USGS TOPOGRAPHIC MAPS (GPO) FROM THE NATIONAL MAP INFORMATION PROGRAM (NMIP). THESE MAPS ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DECISION MAKING OR AS A BASIS FOR ANY OTHER USE.



2 POLICE NO.	USGS TOPOGRAPHY MAP - RILEY OVERSTREET CITY OF ROANOKE LAND APPLICATION PROGRAM BEDFORD COUNTY, VIRGINIA	 BIO-NOMIC SERVICES, INC.	SCALE: 1" = 2,000' PROJECT NO.: 15-18 Ph:01 ENGINEERING LICENSE NO.	DATE: 03.28.2016 DRAWN BY: MEM CHECKED BY: MEM
	C:\img\2009\1568-09-05\Bio-nomic\Riley Overst\offMap\USGS.mxd			



FSN 2084
Tract 2017
Fields 1-6
(RO85-9)

FSN 2084
Tract 2017
Field 2
(RO85-8)

FSN 4131
Tract 6833
Fields 1-2
(RO85-7)

FSN 2084
Tract 2017
Field 7
(RO85-10)

FSN 2243
Tract 1122
Field 2
(RO85-1)

FSN 2243
Tract 1122
Field 3
(RO85-4)

FSN 2243
Tract 1122
Field 13
(RO85-5)

FSN 2243
Tract 1122
Fields 1, 4, 8
(RO85-2)

FSN 2243
Tract 1122
Fields 10-11
(RO85-6)

SOIL LEGEND

- 7B - Cecil fine sandy loam, 2 - 7% slopes
- 7C - Cecil fine sandy loam, 7 - 15% slopes
- 9B - Cullen loam, 2 - 7% slopes
- 14D - Grover fine sandy loam, 15 - 25% slopes
- 19C - Iredell fine sandy loam, 7 - 15% slopes
- 21D3 - Madison sandy clay loam, 15 - 25% slopes
- 24D - Mecklenburg loam, 15 - 25% slopes
- 26D - Poindexter fine sandy loam, 15 - 25% slopes
- 26E - Poindexter fine sandy loam, 25 - 60% slopes
- 29E - Sweetapple fine sandy loam, 25 - 60% slopes

- NRCS Soils Boundary
- Field Boundary

SOURCE:
GIS DATA LAYERS WERE OBTAINED FROM ESRI, INC. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES.

DATE	03.28.2016
DRAWN BY:	MEM
CHECKED BY:	MEM

SCALE:	1" = 600'
PROJECT NO.	15-18 Ph:01
ENGINEERING LICENSE NO.	



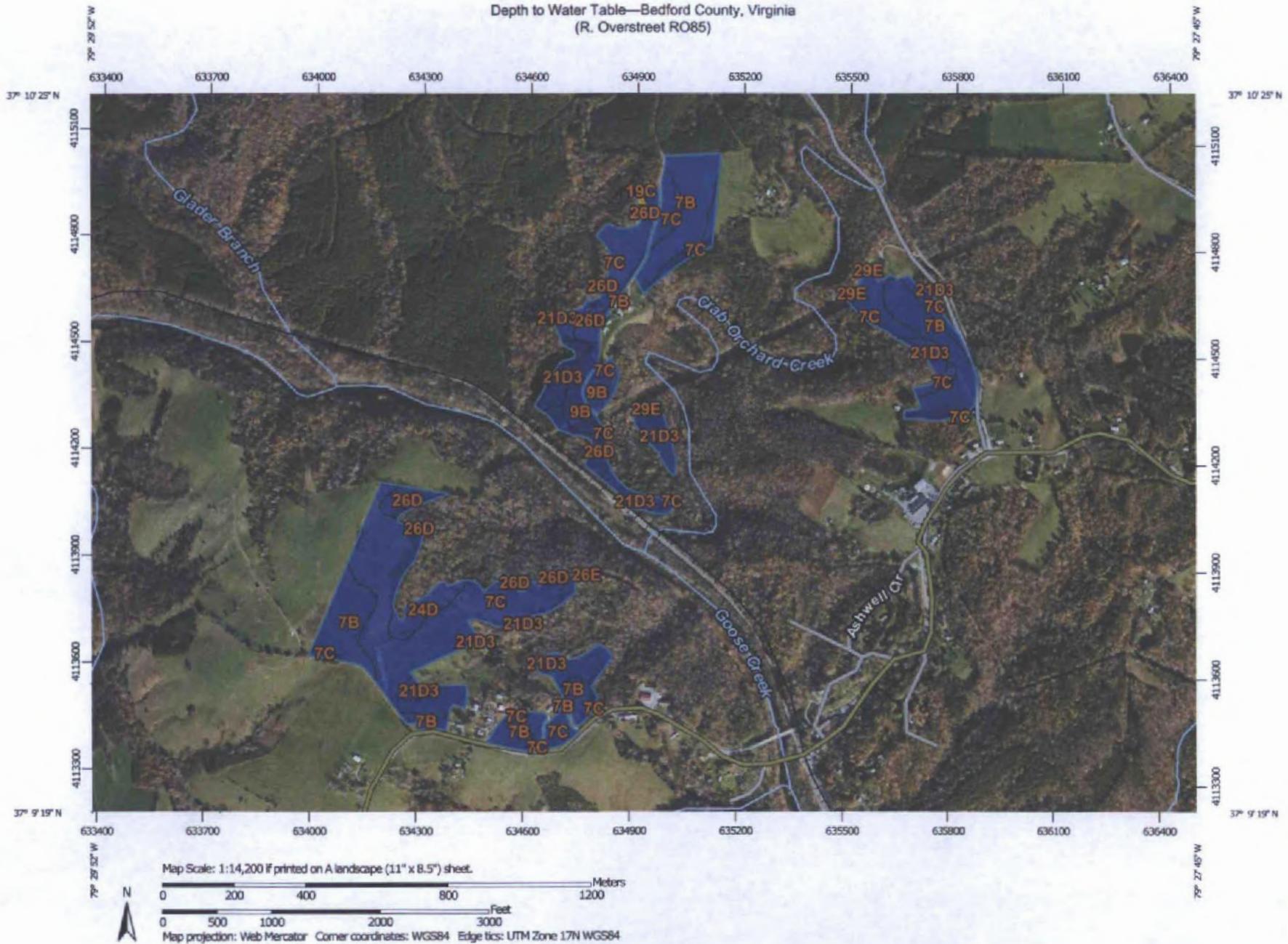
BIO-NOMIC SERVICES, INC.

NRCS SOILS MAP - RILEY OVERSTREET
CITY OF ROANOKE
LAND APPLICATION PROGRAM
BEDFORD COUNTY, VIRGINIA

FIGURE NO.
3

C:\arcgis\2008\1588-09-058 Bio-nomics\Riley Overstreet\Maps\NRCS.mxd

Depth to Water Table—Bedford County, Virginia
(R. Overstreet RO85)



Depth to Water Table—Bedford County, Virginia
(R. Overstreet RO85)

MAP LEGEND

Area of Interest (AOI)	 Area of Interest (AOI)	 Not rated or not available
Soils		Water Features
Soil Rating Polygons		 Streams and Canals
 0 - 25		Transportation
 25 - 50		 Rails
 50 - 100		 Interstate Highways
 100 - 150		 US Routes
 150 - 200		 Major Roads
 > 200		 Local Roads
 Not rated or not available		Background
Soil Rating Lines		 Aerial Photography
 0 - 25		
 25 - 50		
 50 - 100		
 100 - 150		
 150 - 200		
 > 200		
 Not rated or not available		
Soil Rating Points		
 0 - 25		
 25 - 50		
 50 - 100		
 100 - 150		
 150 - 200		
 > 200		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bedford County, Virginia
Survey Area Data: Version 11, Dec 11, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 8, 2010—Mar 17, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Water Table

Depth to Water Table— Summary by Map Unit — Bedford County, Virginia (VA019)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
7B	Cecil fine sandy loam, 2 to 7 percent slopes	>200	30.2	26.6%
7C	Cecil fine sandy loam, 7 to 15 percent slopes	>200	59.0	51.9%
9B	Cullen loam, 2 to 7 percent slopes	>200	2.9	2.6%
14D	Grover fine sandy loam, 15 to 25 percent slopes	>200	0.1	0.1%
19C	Iredell fine sandy loam, 7 to 15 percent slopes	30	0.2	0.1%
21D3	Madison sandy clay loam, 15 to 25 percent slopes, severely eroded	>200	10.5	9.3%
24D	Mecklenburg loam, 15 to 25 percent slopes	>200	3.3	2.9%
26D	Poindexter fine sandy loam, 15 to 25 percent slopes	>200	6.9	6.1%
26E	Poindexter fine sandy loam, 25 to 60 percent slopes	>200	0.0	0.0%
29E	Sweetapple fine sandy loam, 25 to 60 percent slopes	>200	0.4	0.3%
Totals for Area of Interest			113.6	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

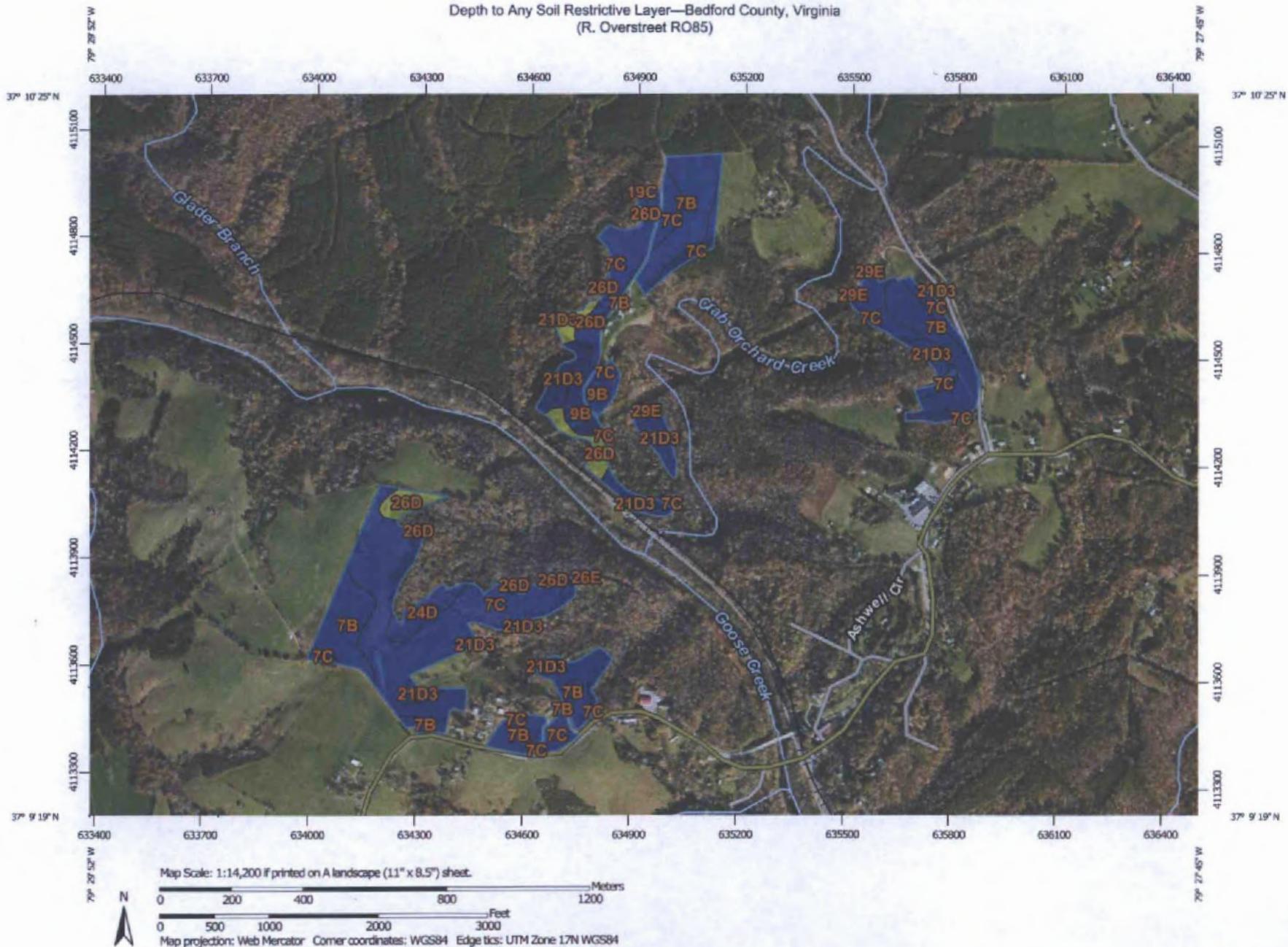
Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Depth to Any Soil Restrictive Layer—Bedford County, Virginia
(R. Overstreet RO85)



Depth to Any Soil Restrictive Layer—Bedford County, Virginia
(R. Overstreet RO85)

MAP LEGEND

 Area of Interest (AOI)	 Not rated or not available
Soils	Water Features
Soil Rating Polygons	 Streams and Canals
 0 - 25	Transportation
 25 - 50	 Rails
 50 - 100	 Interstate Highways
 100 - 150	 US Routes
 150 - 200	 Major Roads
 > 200	 Local Roads
 Not rated or not available	Background
Soil Rating Lines	 Aerial Photography
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	
 Not rated or not available	
Soil Rating Points	
 0 - 25	
 25 - 50	
 50 - 100	
 100 - 150	
 150 - 200	
 > 200	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bedford County, Virginia
Survey Area Data: Version 11, Dec 11, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 8, 2010—Mar 17, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Any Soil Restrictive Layer

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Bedford County, Virginia (VA019)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
7B	Cecil fine sandy loam, 2 to 7 percent slopes	>200	30.2	26.6%
7C	Cecil fine sandy loam, 7 to 15 percent slopes	>200	59.0	51.9%
9B	Cullen loam, 2 to 7 percent slopes	>200	2.9	2.6%
14D	Grover fine sandy loam, 15 to 25 percent slopes	>200	0.1	0.1%
19C	Iredell fine sandy loam, 7 to 15 percent slopes	>200	0.2	0.1%
21D3	Madison sandy clay loam, 15 to 25 percent slopes, severely eroded	>200	10.5	9.3%
24D	Mecklenburg loam, 15 to 25 percent slopes	>200	3.3	2.9%
26D	Poindexter fine sandy loam, 15 to 25 percent slopes	56	6.9	6.1%
26E	Poindexter fine sandy loam, 25 to 60 percent slopes	56	0.0	0.0%
29E	Sweetapple fine sandy loam, 25 to 60 percent slopes	99	0.4	0.3%
Totals for Area of Interest			113.6	100.0%

Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

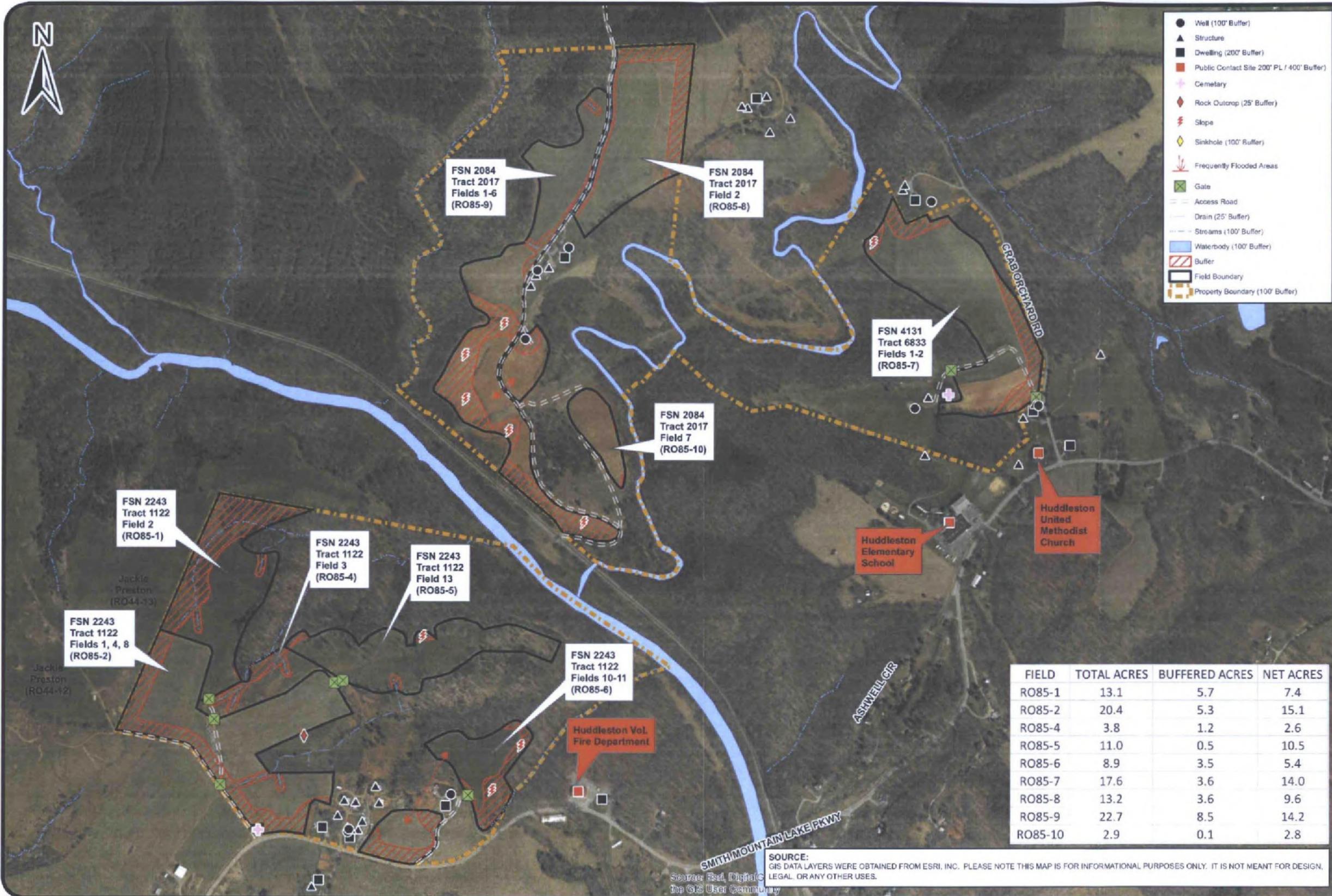
Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No



DATE: 03.28.2016
 DRAWN BY: MEM
 CHECKED BY: MEM

SCALE: 1" = 600'
 PROJECT NO.: 15-18 Ph:01
 ENGINEERING LICENSE NO.: MEM



BIO-NOMIC SERVICES, INC.

BUFFER MAP - RILEY OVERSTREET
 CITY OF ROANOKE
 LAND APPLICATION PROGRAM
 BEDFORD COUNTY, VIRGINIA

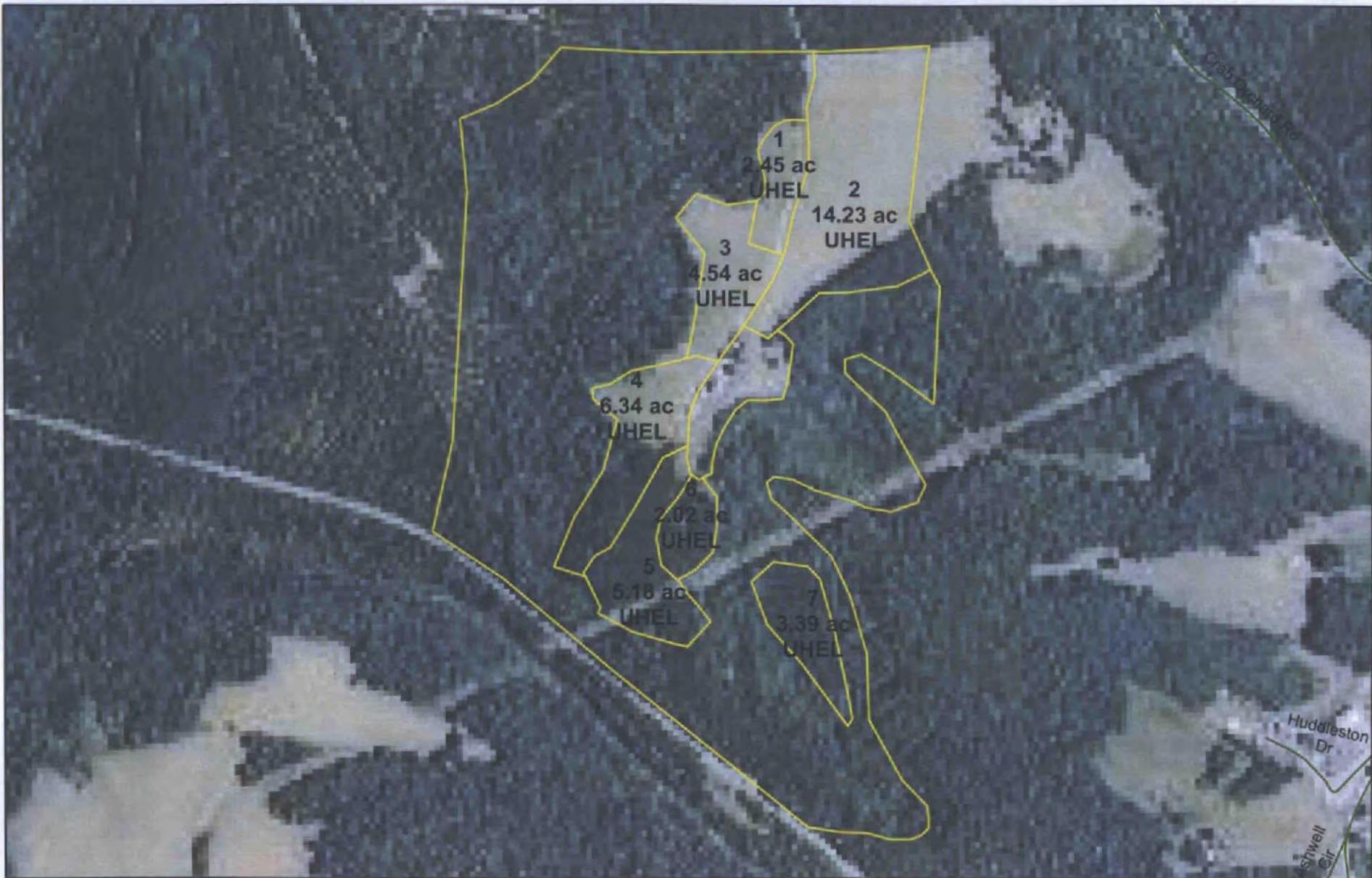
FIGURE NO. **4**

FIELD	TOTAL ACRES	BUFFERED ACRES	NET ACRES
RO85-1	13.1	5.7	7.4
RO85-2	20.4	5.3	15.1
RO85-4	3.8	1.2	2.6
RO85-5	11.0	0.5	10.5
RO85-6	8.9	3.5	5.4
RO85-7	17.6	3.6	14.0
RO85-8	13.2	3.6	9.6
RO85-9	22.7	8.5	14.2
RO85-10	2.9	0.1	2.8

SOURCE:
 GIS DATA LAYERS WERE OBTAINED FROM ESRI, INC. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES.

Source: Esri, DigitalGlobe, GeoEye, IGN, AeriFi, AeroGRID, IGN, the GIS User Community

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1 inch = 579 feet

Farm: 2084
Tract: 2017



Bedford County, VA

Wetland Determination Map

- Protected Area
- Wetland
- Wetland

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

March 15, 2016



1 inch = 613 feet

Farm: 3341
Tract: 6128



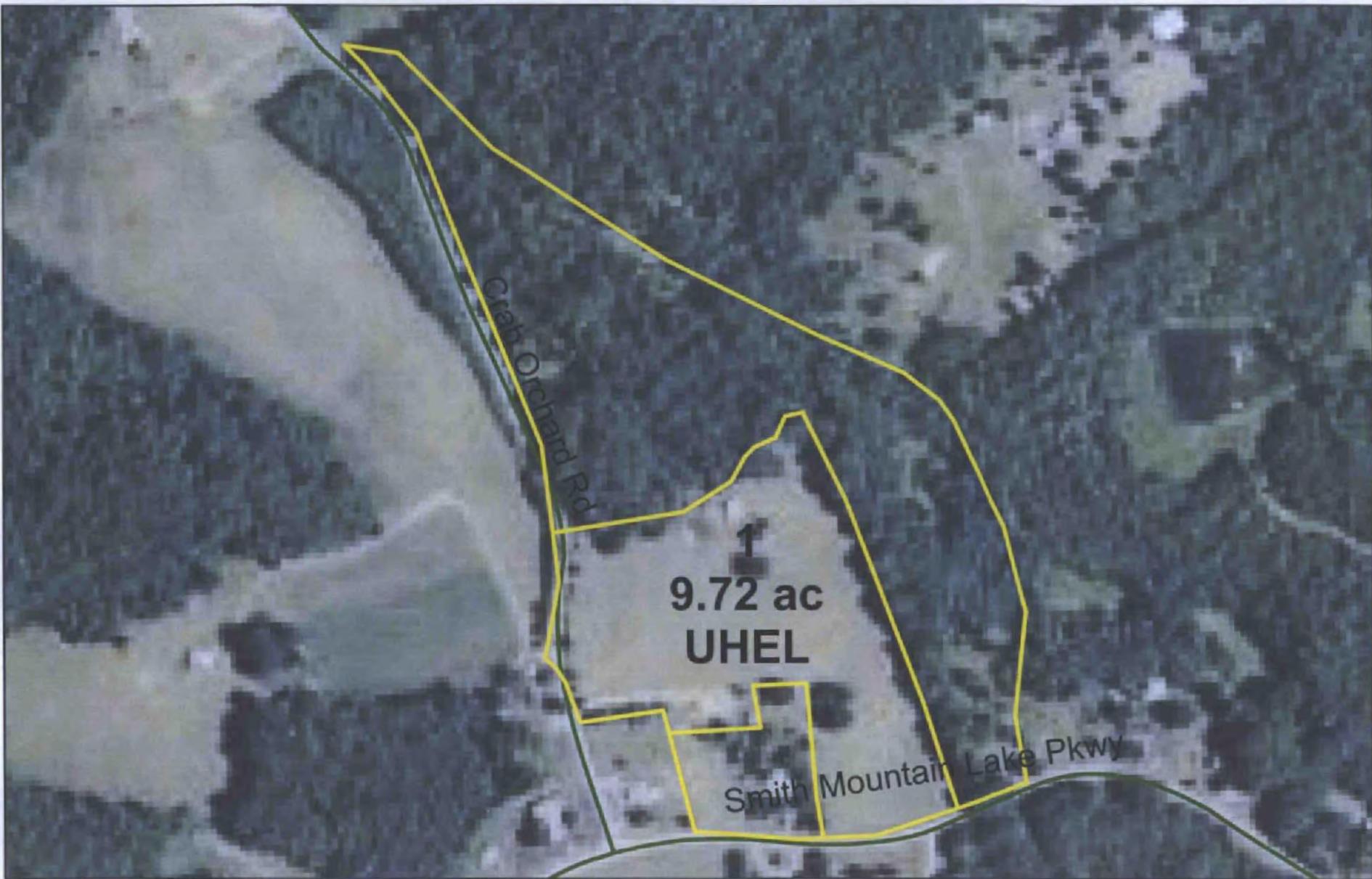
Bedford County, VA

Wetland Determination Map 2016

- Wetland Use
- Wetland Use
- Wetland Use

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Jan 4, 2016



1 inch = 280 feet

Farm: 3718
Tract: 6467



Bedford County, VA

- Wetland Determination Map Key**
- Restricted Use
 - Limited Public Access
 - Forested Wetland/Conservation Easement/Preservation

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Jan 4, 2016



1
8.29 ac
UHEL



1 inch = 225 feet

Farm: 3985
Tract: 2022



Bedford County, VA

- Wetland Determination Map (WDM)
- Protected Area
 - Wetland
 - Obstacle

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Jan 4, 2016



1 inch = 346 feet

Farm: 4131
Tract: 2125

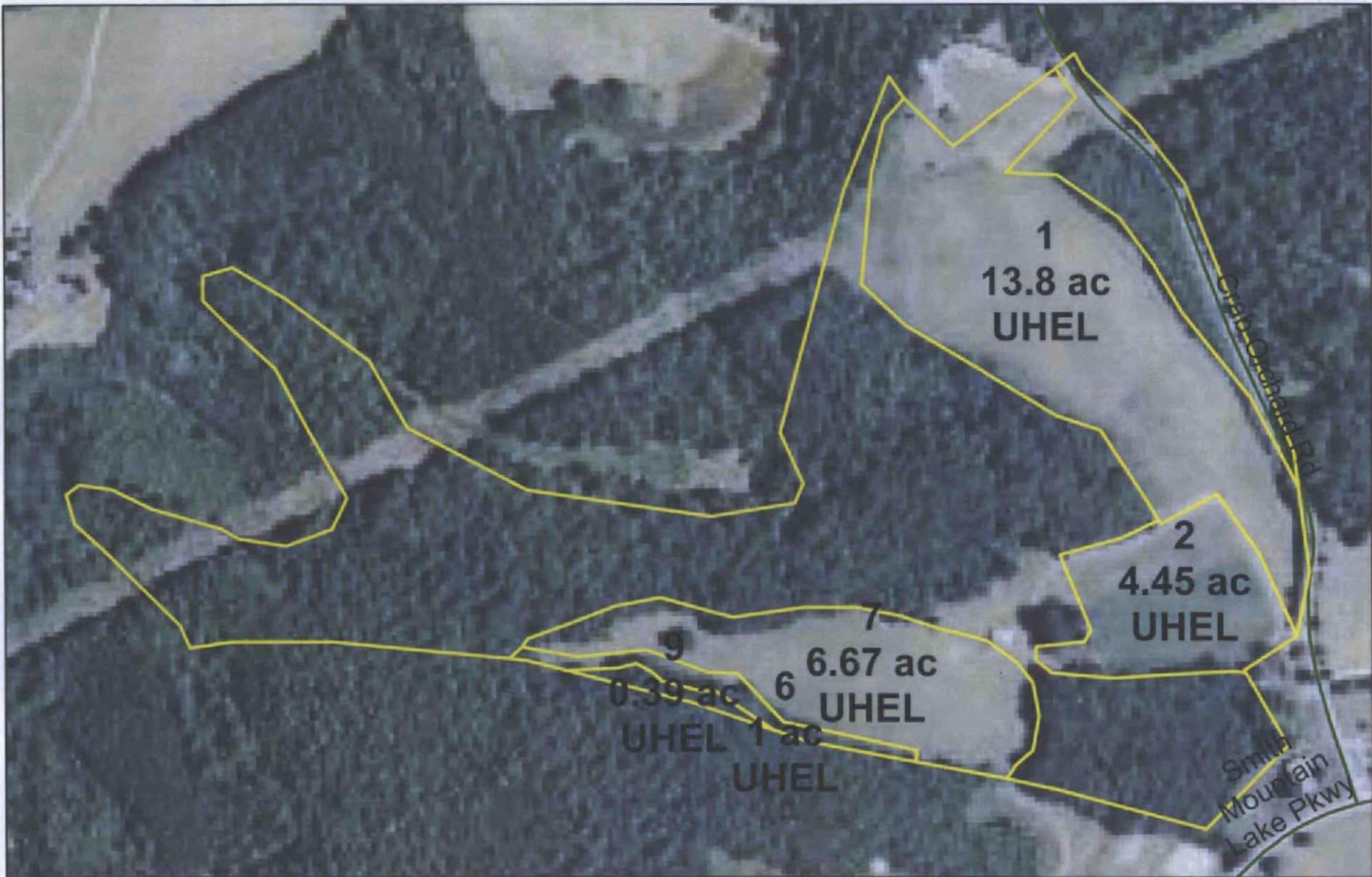


Bedford County, VA

- Wetland Determination Map Symbols**
- Protected Area
 - Limited Wetlands
 - Cowardin Code/Class/Code/Class/Code/Class/Code/Class

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Jan 4, 2016



1 inch = 326 feet

Farm: 4131
Tract: 6833

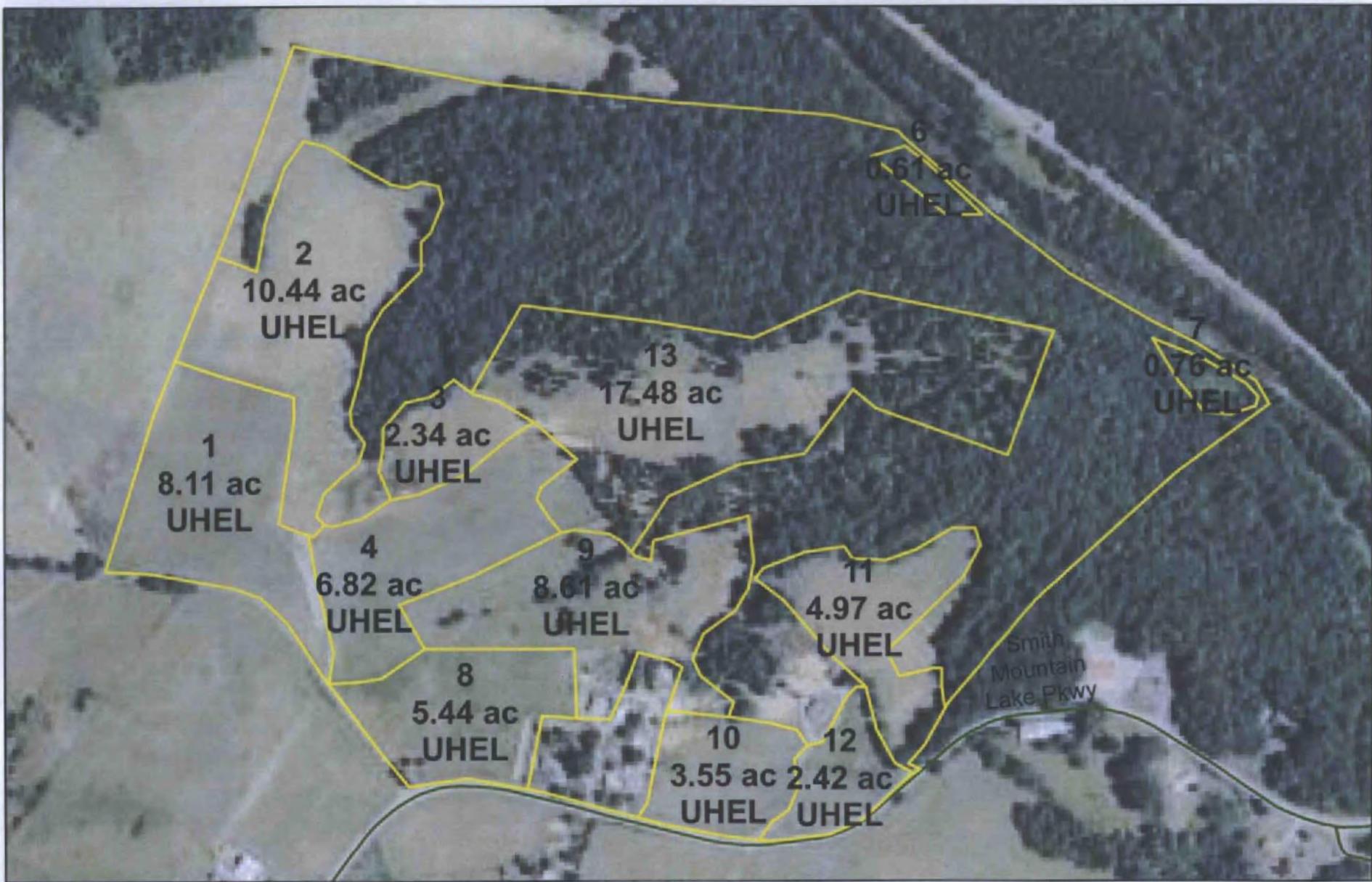


Bedford County, VA

Wetland Determination Maps
 Wetland Use
 Wetland Plant Species
 Wetland Use/Restrictions/Designations/Permits

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Jan 4, 2016



1 inch = 401 feet

Farm: 2243
Tract: 1122



Bedford County, VA

- Wetland Determination Map**
- Unconsolidated UHEL
 - Consolidated UHEL
 - Stream/Streambed/Channel/Overbank

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Dec. 29, 2015



1 inch = 428 feet

Farm: 2284
Tract: 1164



Bedford County, VA

Wetland Determination Methods

- Restricted Use
- Limited Use
- General Use

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Dec. 29, 2015

Report Number: 16-098-0508

Account Number: 45671



7621 Whitepine Road, Richmond, VA 23237
 Main 804-743-9401 ° Fax 804-271-6446
 www.waypointanalytical.com

Send To: BIO-NOMIC SERVICES INC
 Joel Coert
 516 ROUNDTREE RD
 CHARLOTTE NC 28217

"Every acre...Every year."™

Grower: OVERSTREET

Submitted By: DON GREENE
 Farm ID: RO 85

SOIL ANALYSIS REPORT

Analytical Method(s): Lime Index Mehlich 3 Loss On Ignition Water pH

Date Received: 04/07/2016

Date Of Analysis: 04/08/2016

Date Of Report: 04/08/2016

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
85-1	06768	2.8 M	MIN	97	28 L NC = 23			22 VL NC = 11	55 L	1113 VH		7.0		0.0	6.1
85-2	06770	3.4 M	MIN	107	64 H NC = 53			19 VL NC = 10	84 L	1400 VH		6.9		0.1	7.8
85-4	06771	5.0 H	MIN	135	45 M NC = 37			166 H NC = 85	128 M	1659 H		6.5		0.8	10.6
85-5	06772	4.1 M	MIN	121	11 VL NC = 9			68 L NC = 35	72 L	1291 VH		6.8		0.2	7.4
85-6	06773	4.3 M	MIN	126	6 VL NC = 5			64 L NC = 33	68 L	1255 VH		6.8		0.2	7.2

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	Cl ppm Rate	Al ppm
85-1	0.9	7.5	91.2		0.0										
85-2	0.6	9.0	89.7		1.3										
85-4	4.0	10.1	78.3		7.5										
85-5	2.4	8.1	87.2		2.7										
85-6	2.3	7.9	87.2		2.8										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A. Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 16-098-0508

Account Number: 45671



7621 Whitepine Road, Richmond, VA 23237

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		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
85-7	06774	4.4 M	MIN	124	123 VH NC = 102			29 VL NC = 15	75 L	1762 VH		7.0		0.0	9.5
85-8	06775	3.7 M	MIN	114	30 L NC = 25			30 VL NC = 15	123 M	1020 H		6.2		0.9	7.1
85-9	06776	4.4 M	MIN	127	3 VL NC = 2			30 VL NC = 15	200 H	946 M		6.0	6.81	1.2	7.7
85-10	06777	3.6 M	MIN	107	6 VL NC = 5			111 M NC = 57	176 M	1701 H		7.2		0.0	10.3
Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	Cl ppm Rate	Al ppm
85-7	0.8	6.6	92.7		0.0										
85-8	1.1	14.4	71.8		12.7										
85-9	1.0	21.6	61.4		15.6										
85-10	2.8	14.2	82.6		0.0										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Pauric McGroary*

Pauric McGroary