

**GILLIAM, PAUL
FARM**

VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

This biosolids application agreement is made on 10/25/07 between Paul J Gilliam referred to here as "landowner", and Paul J Gilliam referred to here as the "Permittee".

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as Paul J Gilliam ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of biosolids on landowner's land in amounts and in a manner authorized by (VPA) (VPDES) permit number _____ which is held by the Permittee.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property and consents to the application of biosolids on his property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health:

1. Public access to landowner's land upon which biosolids have been applied should be controlled for at least 30 days following any application of biosolids and 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;
2. 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. 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, or 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. Other food crops, feed crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
3. Following biosolids application to pasture or hayland sites, meat producing livestock should not be grazed or fed chopped foliage for 30 days and lactating dairy animals should be similarly restricted for a minimum of 60 days. Other animals should be restricted from grazing for 30 days;
4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids 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 to be supplied to the landowner by the permittee at the time of application of biosolids to a specific permitted site;
5. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
6. 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 the permitting authority.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for biosolids application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below.

Landowner: Paul J Gilliam

Mailing Address: 1403 Gilliam Rd
BROOKNHAL VA 24578

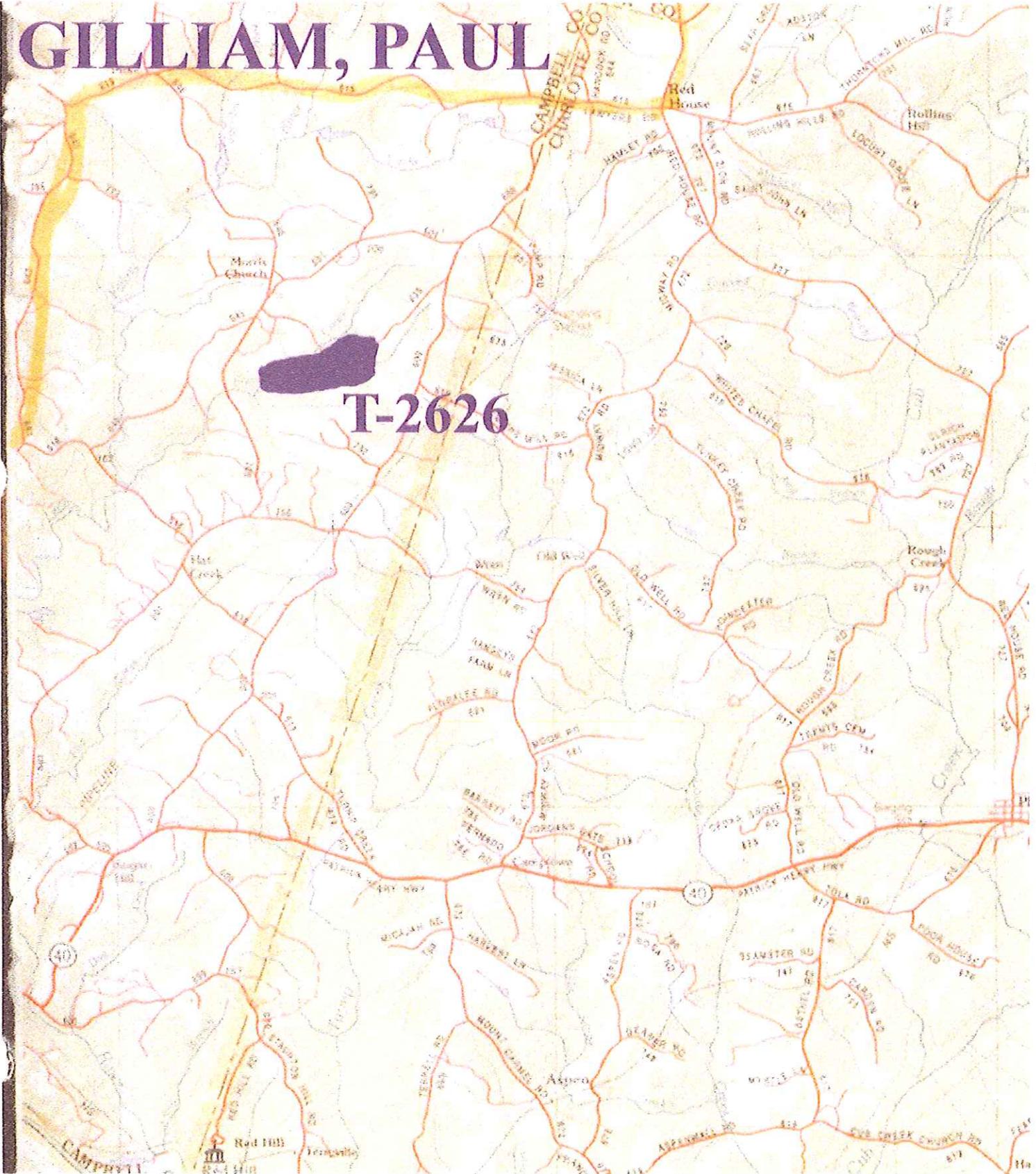
Permittee: Paul J Gilliam

Mailing Address: 1403 Gilliam Rd
BROOKNHAL VA 24578

Nutri Blend

BIO SOLIDS LAND APPLICATION

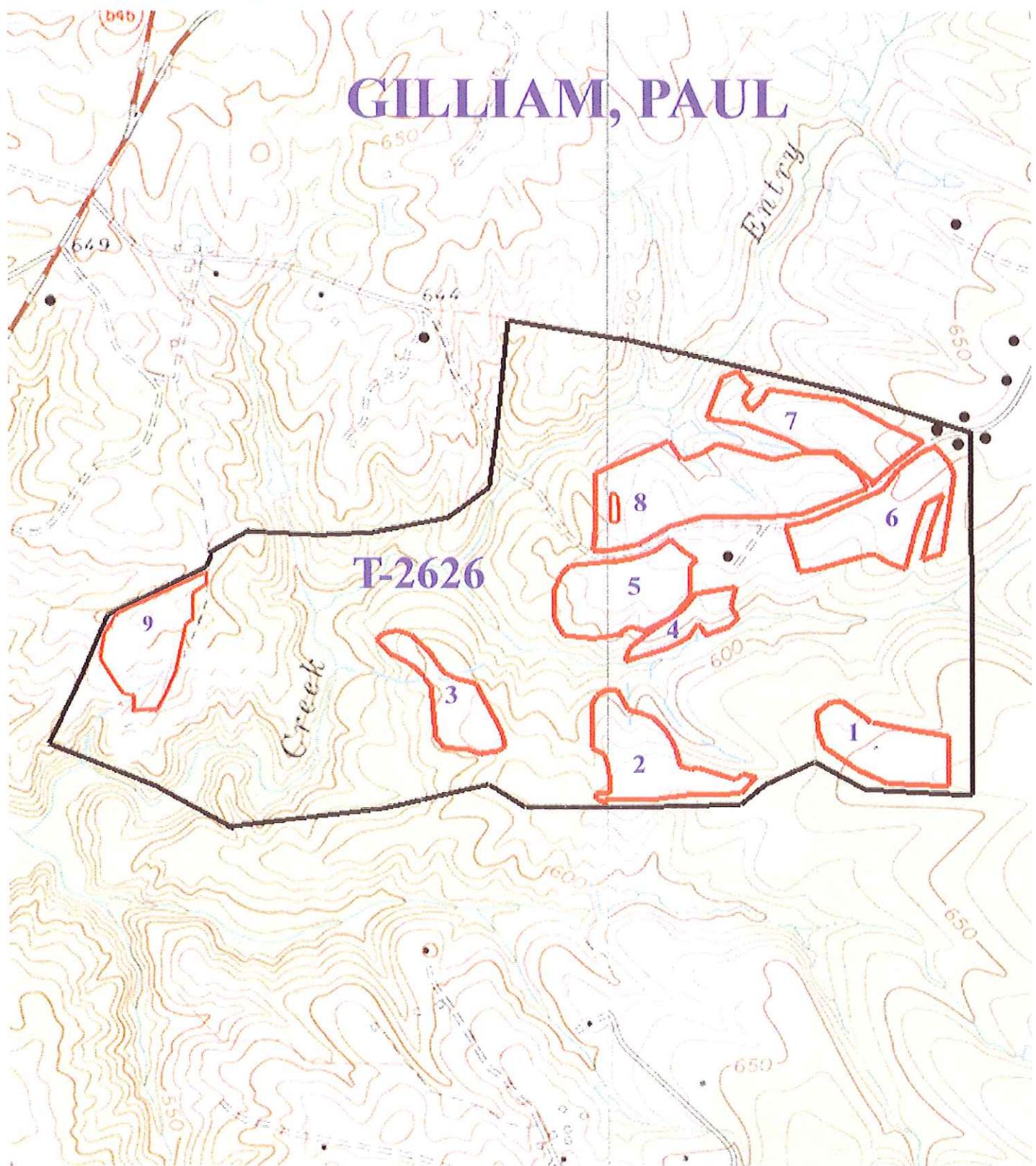
GILLIAM, PAUL



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BIO SOLIDS LAND APPLICATION

GILLIAM, PAUL

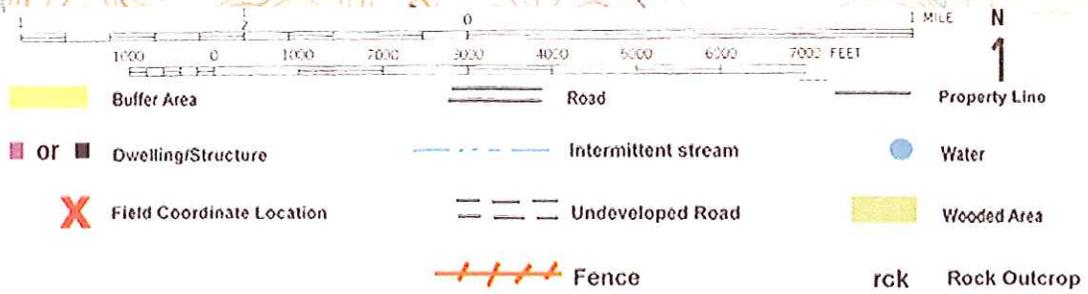
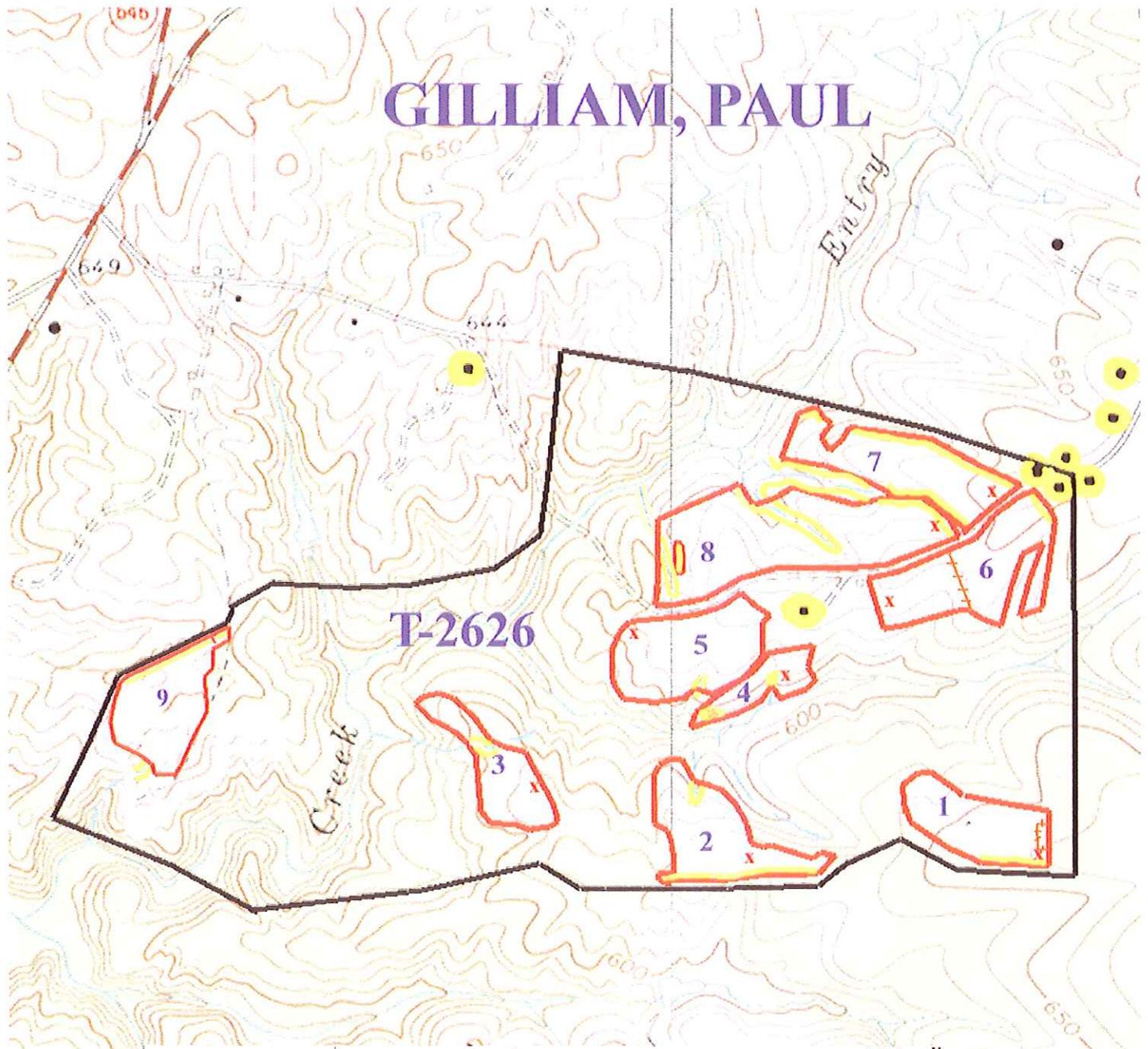


**GILLIAM, PAUL
FARM
TRACT T-2626**

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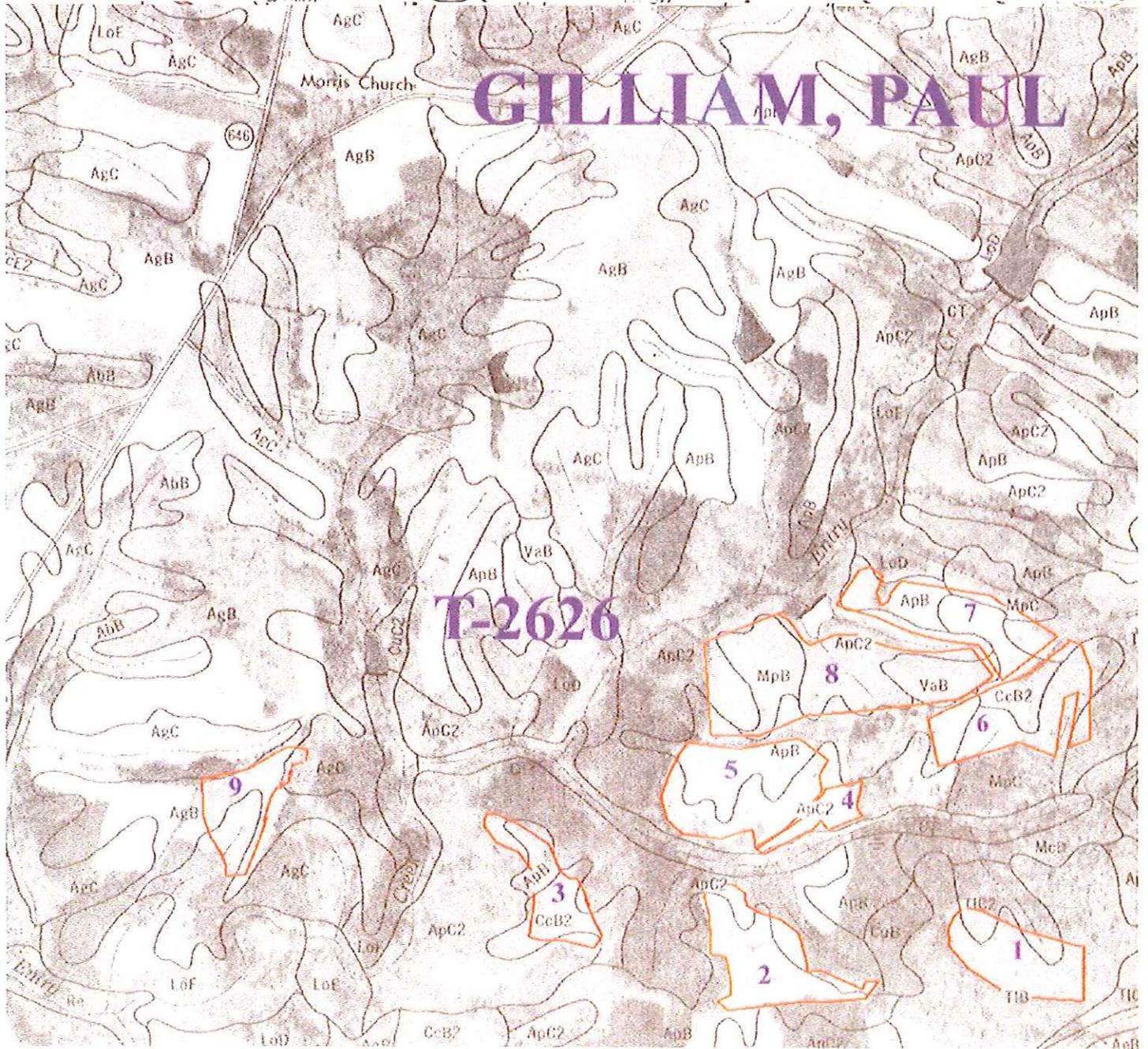
BIOSOLIDS LAND APPLICATION

GILLIAM, PAUL



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BIOSOLIDS LAND APPLICATION



**GILLIAM FARM
TRACT T-2626
FIELD DATA SHEET**

Field	Total Acres	Net Acres	Soil Series	Productivity	
				Corn	Hay
1	10.0	9.5	TIB* Tatum loam, 2-7% slopes TIC2 Tatum loam, 6-15% slopes	IVa	II
2	11.2	10.4	ApB* Appling fine sandy loam, 2-6% slopes ApC2 Appling fine sandy loam, 6-15% slopes	IVa	III
3	6.1	5.8	CcB2* Cecil fine sandy loam, 2-6% slopes ApC2 Appling fine sandy loam, 6-15% slopes ApB Appling fine sandy loam, 2-6% slopes	IVa	II
4	4.5	3.5	ApC2* Appling fine sandy loam, 6-15% slopes ApB Appling fine sandy loam, 2-6% slopes CT Chewacla-Toccoa complex		
5	9.0	8.8	ApB* Appling fine sandy loam, 2-6% slopes ApC2 Appling fine sandy loam, 6-15% slopes	IVa	III
6	11.7	11.2	MpC* Masada fine sandy loam, 6-15% slopes CcB2 Cecil fine sandy loam, 2-6% slopes ApB Appling fine sandy loam, 2-6% slopes TIB Tatum loam, 2-7% slopes	IIb	II
7	14.2	12.2	CcB2* Cecil fine sandy loam, 2-6% slopes ApB Appling fine sandy loam, 2-6% slopes MpC Masada fine sandy loam, 6-15% slopes LoD Louisburg fine sandy loam, 6-15% slopes CT Chewacla-Toccoa complex	IVa	II
8	22.4	20.0	ApC2* Appling fine sandy loam, 6-15% slopes ApB Appling fine sandy loam, 2-6% slopes MpB Masada fine sandy loam, 2-6% slopes VaB Vance fine sandy loam, 2-6% slopes	IIb	II
9	10.5	10.0	AgB* Appling gravelly sandy loam, 2-6% slopes AgC Appling gravelly sandy loam, 6-15% slopes	IVa	III
SUM	99.6	91.4			

FIELD	LATITUDE	LONGITUDE
1	37°08'76"	78°51'96"
2	37°08'76"	78°52'39"
3	37°08'81"	78°52'67"
4	37°08'98"	78°52'33"
5	37°09'03"	78°52'53"
6	37°09'03"	78°52'19"
7	37°09'14"	78°52'03"
8	37°09'09"	78°52'27"
9	37°09'24"	78°53'12"

Report Number:
R08354-0081
Account Number:
73874

A&L Eastern Laboratories, Inc.
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401
Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



Send To: NUTRI-BLEND INC
POB 38060
RICHMOND, VA 23231

Grower: P GILLIAM/PO#9014
TRACT 2626

Submitted By: TAMESHA C

Farm ID: Field ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich III

Page: 1 Date Received: 12/19/2008 Date of Analysis: 12/20/2008 Date of Report: 12/23/2008

Sample Number	Lab Number	Organic Matter		Phosphorus		Potassium		Magnesium		Calcium		Sodium		pH		Acidity		C.E.C.						
		%	ENR lbs/A	Rate	Available ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	CA ppm	Rate	NA ppm	Rate	Soil pH		Buffer Index	H meq/100g				
1	12445	2.2	86	L	20	L	44	VL	90	M	830	H	6.5	6.9	0.4	5.4								
2	12446	1.6	74	L	115	VH	128	H	140	H	760	M	6.6	6.9	0.3	5.6								
3	12447	2.4	86	L	34	M	43	VL	145	M	1420	H	7.1			8.4								
4	12448	2.2	81	L	61	H	100	M	150	M	1420	H	6.7	6.9	0.4	9.0								
6	12449	1.7	77	L	46	M	37	VL	85	M	670	H	6.2	6.9	0.6	4.7								
Sample Number	Percent Base Saturation						Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		Chloride	Aluminum							
	K %	Mg %	Ca %	Na %	H %									SO4-S ppm	Rate			ZN ppm	Rate	MN ppm	Rate	FE ppm	Rate	CU ppm
1	2.1	13.9	76.7			7.4																		
2	5.8	20.7	67.5			5.9																		
3	1.3	14.4	84.3																					
4	2.8	13.9	78.8			4.5																		
6	2.0	15.0	70.9			12.1																		

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 the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:
A & L EASTERN LABORATORIES, INC.

by: *Paul Chu*
Paul Chu, Ph.D.

Report Number:
R08354-0081
Account Number:
73874

A&L Eastern Laboratories, Inc.
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401
Fax No. (804) 271-6446 Email: office@al-labs-eastern.com



Send To: NUTRI-BLEND INC
POB 38060
RICHMOND, VA 23231

Grower: P GILLIAM/PO#9014
TRACT 2626

Submitted By: TAMESHA C

Farm ID: Field ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich II

Page: 2 Date Received: 12/19/2008 Date of Analysis: 12/20/2008 Date of Report: 12/23/2008

Sample Number	Lab Number	Organic Matter		Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C.						
		%	ENR lbs/A	Available ppm	Reserve ppm					K ppm	MG ppm			CA ppm	NA ppm	Soil pH	Buffer Index	H meq/100g	
7	12450	2.1	85	L	40	M				64	L	145	H	650	M	6.3	6.9	0.5	5.2
8	12451	1.8	81	L	44	M				36	VL	85	H	460	M	5.8	6.9	0.7	3.8
9	12452	1.7	79	L	10	VL				41	VL	75	H	460	M	5.8	6.9	0.7	3.7
Sample Number	Percent Base Saturation						Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		Chloride	Aluminum		
	K %	Mg %	Ca %	Na %	H %	NO3-N ppm								SO4-S ppm	ZN ppm			MN ppm	FE ppm
7	3.2	23.4	62.9		10.6														
8	2.4	18.5	60.1		19.0														
9	2.8	16.7	61.5		19.0														

ALL-5M
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Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
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To: NUTRI-BLEND INC
POB 38060
RICHMOND, VA 23231

For: P.GILLIAM/PO#9014
TRACT 2626

Copy To: TAMESHA C

Date Received: 12/19/2008
Date Reported: 12/23/2008

SOIL FERTILITY RECOMMENDATIONS

Page: 1

Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P2O5 lb/A	Potash K2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1	Adj pH To 6.8		1.0	0	0	0	0						
2	Adj pH To 6.8		1.0	0	0	0	0						
3	Adj pH To 6.8		0.0	0	0	0	0						
4	Adj pH To 6.8		0.0	0	0	0	0						
6	Adj pH To 6.8		1.3	0	0	0	0						

Sample 1, 6: Apply dolomitic lime to raise pH and improve the magnesium level.

ALB-R08

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SOIL FERTILITY RECOMMENDATIONS

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Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P2O5 lb/A	Potash K2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
7	Adj pH To 6.8		1.0	0	0	0	0						
8	Adj pH To 6.8		1.5	0	0	0	0						
9	Adj pH To 6.8		1.5	0	0	0	0						

ALE-1000

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Paul Chu
Paul Chu, Ph.D.

Report Number:
R08351-0021

Account Number:
73874

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Grower: PO#9012 - GILLIAM
TRACT 2626

Submitted By: TAMESHA CROCHET

Farm ID: Field ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich III

Page: 1 Date Received: 12/16/2008 Date of Analysis: 12/17/2008 Date of Report: 12/18/2008

Sample Number	Lab Number	Organic Matter		Phosphorus		Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C.			
		%	ENR lbs/A	Available ppm	Reserve ppm					K ppm	MG ppm			CA ppm	NA ppm	Soil pH
5	10352	2.8	96	11	VL	45	130	1040	H	6.6	6.9	0.4	6.8			
Sample Number	Percent Base Saturation				Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		Chloride	Aluminum	
	K %	Mg %	Ca %	Na %								H %	SO4-S ppm			ZN ppm
5	1.7	15.9	76.4													

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.

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SOIL FERTILITY RECOMMENDATIONS

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Sample ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P2O5 lb/A	Potash K2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
5	Adj pH To 6.8		1.0	0	0	0	0						

ALL-906

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Paul Chu
Paul Chu, Ph.D.