99 Thomas Nelson Drive Hampton VA 23670

Matthew S. Wells *Director*

Andrew W. Smith Chief Deputy Director



COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

March 20, 2024

Date Received by DCR 3/14/2024

John W. Mason
Virginia Peninsula Community College-Historic Triangle

Your nutrient management plan (NMP) dated 3/14/2024 located in James City County has been approved by the Virginia Department of Conservation and Recreation (DCR). The approved plan is for 8 acres. Only nutrient recommendations for applications to be made after the date of this letter are approved by this letter. Your NMP was written by Christy Smith, a nutrient management planner certified by DCR.

This site has not been inspected by DCR and this approval is contingent upon site conditions being as stated in the NMP. Any revisions to this plan must be approved by DCR. Any change in personnel resulting in a change to the plan manager should be reported to the Certified Nutrient Management Planner who will then make DCR aware. Please note that this letter should be kept with the NMP and supporting documentation including nutrient application records. This plan expires on 3/13/2027. Please feel free to contact me with any questions or concerns regarding this approval.

Best regards,

Into V Tutto

Anita Tuttle

Urban Nutrient Management Coordinator Division of Soil and Water Conservation 600 East Main Street, 24th Floor Richmond VA 23219 (804) 513-5958 Frank N. Stovall Deputy Director for Operations

Darryl Glover
Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation

Laura Ellis
Deputy Director for
Administration and Finance

Nutrient Management Plan

VA Peninsula CC/Historic Triangle

Prepared For:

John W. Mason 99 Thomas Nelson Drive Hampton, VA 23670 757-825-3694

Prepared By:

Christy F. Smith 3160 Jacobia Lane Cape Charles, VA 23310 757-678-6129

Certification Code:

297

Total Acreage: 8 acres

The purpose of this Nutrient Management Plan is to ensure minimum movement of nitrogen and phosphorus from the specified area of application to surface and groundwaters where they can potentially have a detrimental effect on water quality as well as ensuring that plants have optimum soil nutrient availability for good productivity and quailty. By following this soil test based plan you are helping to protect local waters and the Chesapeake Bay.

If you have questions, please contact your plan writer, local Virginia Cooperative Extension



Nutrient Management Plan for: Virginia Peninsula CC/Historic Triangle Campus

L	Landowner Information								
Company Name	Virginia Peninsula CC/Historic Triangle Campus								
Customer Name	John W. Mason								
Mailing Address	99 Thomas Nelson Drive								
City State Zip	Hampton, VA 23670								
Phone	757-825-3694								
Email	MasonJ@vpcc.edu								

	Planners Information								
Planner Name	Christy F. Smith								
Mailing Address	3160 Jacobia Lane								
City State Zip	Cape Charles, VA 23310								
Phone	757-678-6129								
Fax	757-331-3957								
Email	christy@smithagronomic.com								
Certification Code	297								

Location Information							
Physical Address	4601 Opportunity Way						
City State Zip	Williamsburg, VA 23188						
Coordinates	37.335916						
Please Use NAD 83 Deg Min Sec	-76.755489						
VAHU6 Watershed Code	JL31						
County	James City County						

	Square Footage								
Total	8 acres								
Area 1	135,036 sq ft								
Area 2	213,444 sq ft								
Area 3									
Area 4									

Plan Start Date	3/14/24
Plan End Date	3/13/27
Planner Signature	Chip 7. Smith

Narrative

Virginia Peninsula Community College/Histric Triangle Campus is located on 4601 Opportunity Way, Williamsburg, VA 23188, just off of Centerville Road. The site is seeded with fescue.

Currently 8 acres of turfgrass (348,480 square feet) receive nutrient applications. The acreage was measured by laser. Lime is not needed at this time. The agency must not apply nutrients at higher rates or more frequently than specified in the nutrient management plan.

There are no environmentally sensitive sites located on campus.

Nutrient applications are prohibited on frozen/snow covered ground.

Virginia Peninsula Community College agrees to comply with all requirements set forth in the Nutrient Management Training and Certification Regulations, 4VAC5-15-10 et seq., and to follow recommendations for turf fertilization and management as described in the attached Virginia Nutrient Managemet Standards and Criteria, Revised July 2014. This includes implementing the Department of Conservation and Recreation's approved Nutrient Management Plan and maintaining fertilization records. Soil testing is recommended at least once every three years. This plan is effective for 3 years, expiring 3/13/2027 or until any major renovation or major changes to maintenance practices occur which effects the fertilized/lime areas.

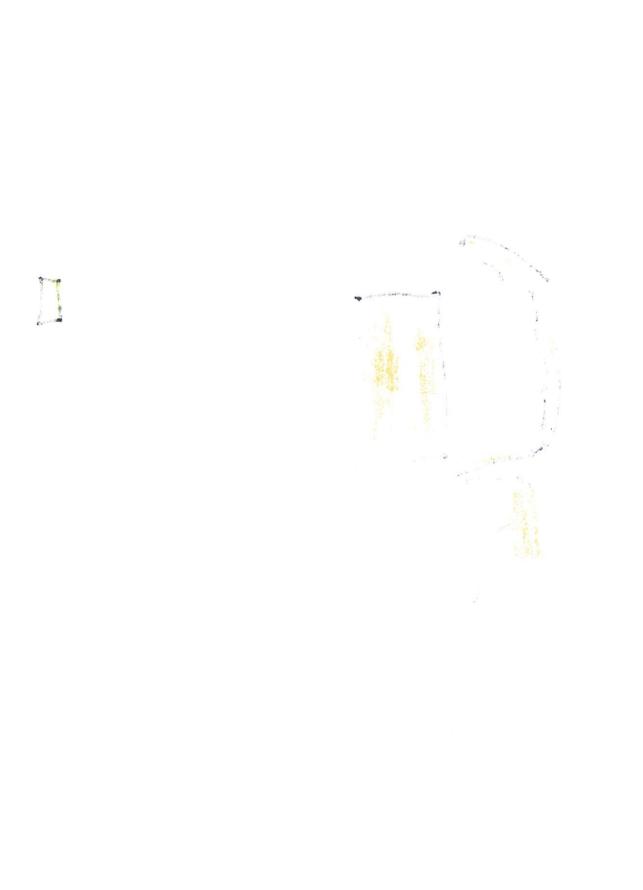
Google Maps

Thomas Nelson Community College, Historic Triangle Campus



100 ft magery @2018 Commonwealth of Virginia, DigitalGlobe, U.S. Geological Survey, USDA Farm Service Agency, Map data @2018 Google

Areal-3. laws
Area 2-4.9 acres
Prentized areas



O The Home Depot Map data ©2018 Google 1000 ft I Chick-fil-A @ 3 0 Google WISC - Williamsburg O Warhill Sports Complex • 8/9 ADAMS HUNT (1) (1) mp hominy ike

NAME:	John W. Mason 3/14/24 3/13/27				Mana	aem	ent Area:	1						
Prepared: Expires:					Area (sq ft):		135036	Species:		fescue				
Total Nutrient Needs	Application Month/Day	Analysis	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft ²	lbs or oz	%Slow Release N	Total NPI		Gypsum	Lime	Total Product per App. (lbs or oz
Nitrogen		N - P - K						問題		N - P ₂ O ₅ -	K ₂ O			
2	4/1	20 - 10 - 10	1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.35 -	0.35			473
Phosphorus	9/1	20 - 10 - 10	1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.35 -	0.35			473
1	10/1	17 - 8 - 8	1	30 days	dry	granular	3.50	lbs	0%	0.60 - 0.28 -	0.28			473
Potassium										0.00 - 0.00 -	0.00			0
1										0.00 - 0.00 -	0.00			0
										0.00 - 0.00 -	0.00			0
										0.00 - 0.00 -	0.00			0
										0.00 - 0.00 -	0.00			0
										0.00 - 0.00 -	0.00			0
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										0.00 - 0.00 -	0.00			0
		•					Total		######	2.00 - 0.98 -	0.98			
				N Reco	mmendatio	n Range and	Soil Test	Rati	ings	2 1	1	-		

NAME:	ME: John W. M	son			Mana	aem	ent Area:			2					
Prepared: Expires:		3	/14/24				Area (sq ft):		213444	Species:			fescue		
Total Nutrient Needs	Application Month/Day	Analysis	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft ²	lbs or oz	%Slow Release N	Total NPI lbs/1000f		Gypsum	Lime	Total Product per App. (lbs or oz	
Nitrogen		N - P - K								N - P ₂ O ₅ -	K ₂ O				
2	4/1	20 - 5 - 10	1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.18 -	0.35			747	
Phosphorus	9/1	20 - 5 - 10	1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.18 -				747	
.5	10/1	17 - 4 - 8	1	30 days	dry	granular	3.50	lbs	0%	0.60 - 0.14 -	0.28			747	
Potassium										0.00 - 0.00 -	0.00			0	
1										0.00 - 0.00 -	0.00			0	
										0.00 - 0.00 -	0.00			0	
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							Total		#####	2.00 - 0.49 -	0.98				
				N Recoi	mmendatio	n Range and	Soil Test	Rati	ings	2 0.5	1				

			5	Soil Tes	t Sumr	mary						
Customer Name:	T					John W. Ma:	son					
Testing Lab:						Virginia Te						
Sample Date:						3/11/202	4					
Planner Name					,	Christy F. Sn	nith					
Certification Number						297						
	ADEA COULT DUST LAB TOOK LAB T											
Managed	AREA	Soil	Buffer	Lab Test	VT	Lab Test	VT	Species				
Area ID	(sq ft)	pН	рH	Р	(H/M/L)	К	(H/M/L)					
1	135,036	6.5	6.34	13	M-	110	M	fescue				
2	213,444	7.4	6.6	46	H-	144	М	fescue				
		<u> </u>										
	1											
	1			1								
Notes:			,	No li	me needed a	at this time.						

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Roanoke Office 3738 Brambleton Ave., S.W. Roanoke, VA 24018-3639 540-772-7524 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

SEI	E NOTES:
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	www.soiltest.vt.edu.under Denort Notes

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CAPE CHARLES, VA 23310

SAMPLE HISTORY

			O. aivite 20	J III OICI						
Sample	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION					
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
TNHT1	TRIANGLE									III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	13	110	1544	165	0.8	6.4	0.3	59.6	0.3	
Rating	M-	М	H-	H-	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil pH	Buffer Index	EstCEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	6.5	6.34	5.0	7.1	92.9	76.6	13.5	2.8	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, TONS/AC					
Amount	Type				
0					

Fertilizer, lb/A								
N	P205	K20						
See	90	80						
Comment								

- 825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.
- 131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.
- 123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.
- 991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Roanoke Office 3738 Brambleton Ave., S.W. Roanoke, VA 24018-3639 540-772-7524 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

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91	www so	iltest vt edu under Renart Nates

CAPE CHARLES, VA 23310

SAMPLE HISTORY

Sample	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION					
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
TNHT2	TRIANGLE									III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	46	144	3976	214	2.0	14.3	0.3	38.0	1.0	
Rating	H-	М	VH	H+	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysi	Soil	Buffer	EstCEC	Acidity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
	pH	Index	(meq/100g)	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	7.4	6.60	11.0	0.0	100.0	90.3	8.0	1.7	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, TONS/AC					
Amount	Type				
0					

Fertilizer, Ib/A									
N	N P205 K20								
See	0	80							
Comment									

- 825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.
- 131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.
- 123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.
- 991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

Standards and Criteria

Section VI. Turfgrass Nutrient Recommendations for Home Lawns, Office Parks, Public Lands and Other Similar Residential/Commercial Grounds

Definitions

For the purposes of this section, the following definitions, as presented by the Association of American Plant Food Control Officials (AAPFCO), apply:

"Enhanced efficiency fertilizer" describes fertilizer products with characteristics that allow increased plant nutrient availability and reduce the potential of nutrient losses to the environment when compared to an appropriate reference product.

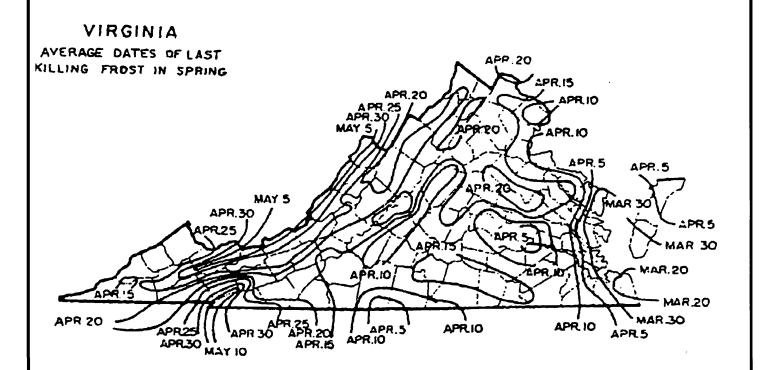
"Slow or controlled release fertilizer" means a fertilizer containing a plant nutrient in a form which delays its availability for plant uptake and use after application, or which extends its availability to the plant significantly longer than a reference "rapidly available nutrient fertilizer" such as ammonium nitrate, urea, ammonium phosphate or potassium chloride. A slow or controlled release fertilizer must contain a minimum of 15 percent slowly available forms of nitrogen.

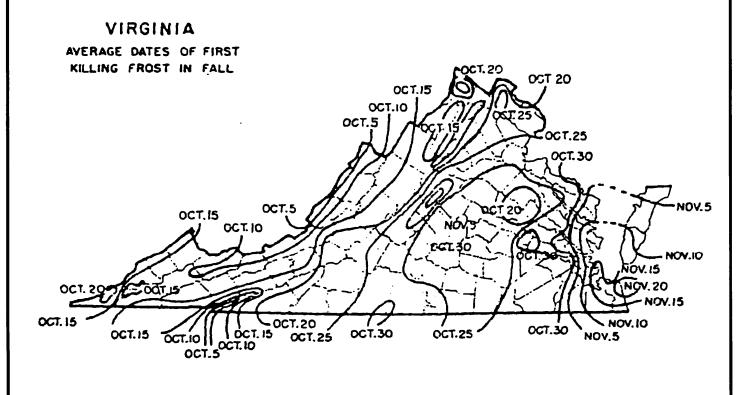
"Water soluble nitrogen", "WSN" and "readily available nitrogen" means: Water soluble nitrogen in either ammonical, urea, or nitrate form that does not have a controlled release, or slow response.

Recommended Season of Application For Nitrogen Fertilizers - Applies to all Turf

A nitrogen fertilization schedule weighted toward fall application is recommended and preferred for agronomic quality and persistence of cool season turfgrass; however, the acceptable window of applications is much wider than this for nutrient management. The nutrient management recommended application season for nitrogen fertilizers to cool season turfgrasses begins six weeks prior to the last spring average killing frost date and ends six weeks past the first fall average killing frost date (see Figures 6-1 & 6-2). Applications of nitrogen during the intervening late fall and winter period should be avoided due to higher potential leaching or runoff risk, but where necessary, apply no more than 0.5 pounds per 1,000 ft² of water soluble nitrogen within a 30 day period. Higher application rates may be used during this late fall and winter period by using materials containing slowly available sources of nitrogen, if the water soluble nitrogen contained in the fertilizer does not exceed the recommended maximum of 0.5 pounds per 1,000 ft² rate. Do not apply nitrogen or phosphorus fertilizers when the ground is frozen.

The acceptable nitrogen fertilizer application season for non-overseeded warm season turfgrass begins no earlier than the last spring average killing frost date and ends no later than one month prior to the first fall average killing frost date (see Figures 6-1 & 6-2).





Per Application Rates

Do not apply more than 0.7 pounds of water soluble nitrogen per 1,000 ft² within a 30 day period. For cool season grasses, do not apply more than 0.9 pounds of total nitrogen per 1,000 ft² within a 30 day period. For warm season grasses, do not apply more than 1.0 pounds of total nitrogen per 1,000 ft² within a 30 day period. Lower per application rates of water soluble nitrogen sources or use of slowly available nitrogen sources should be utilized on very permeable sandy soils, shallow soils over fractured bedrock, or areas near water wells.

Annual Application Rates for Home Lawns and Commercial Turf

Up to 3.5 pounds per 1,000 ft² of nitrogen may be applied annually to cool season grass species or up to 4 pounds per 1,000 ft² may be applied annually to warm season grass species using 100 percent water soluble nitrogen sources. Lower rates of nitrogen application may be desirable on those mature stands of grasses that require less nitrogen for long-term quality. As a result, lower application rates will probably be more suited to the fine leaf fescues (hard fescue, chewings fescue, creeping red fescue, and sheep fescue) and non-overseeded zoysiagrass. Lower rates should also be used on less intensively managed areas.

Use of Slowly Available Forms of Nitrogen

For slow or controlled release fertilizer sources, or enhanced efficiency fertilizer sources, no more than 0.9 pounds of nitrogen per 1,000 ft² may be applied to cool season grasses within a 30 day period and no more than 1.0 pounds of nitrogen per 1,000 ft² may be applied to warm season grasses within a 30 day period. Provided the fertilizer label guarantees that the product can be used in such a way that it will not release more than 0.7 pounds of nitrogen per 1,000 ft² in a 30 day period, no more than 2.5 pounds of nitrogen per 1,000 ft² may be applied in a single application. Additionally, total annual applications shall not exceed 80 percent of the annual nitrogen rates for cool or warm season grasses.

Phosphorus and Potassium Nutrient Needs (Established Turf)

Apply phosphorus (P_2O_5) and potassium (K_2O) fertilizers as indicated necessary by a soil test using the following guidelines:

Soil Test Level	Nutrient Needs (lbs /1000 ft ²⁾ *					
	P ₂ O ₅	K₂O				
L	2-3	2-3				
M	1-2	1-2				
Н	0.5-1	0.5-1				
VH	0	0				

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range. (For example the recommendation for a P_2O_5 soil test level of L- would be 3 pounds per 1,000 ft².)

Do not use high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

Recommendations for Establishment of Turf

These recommendations are for timely planted turfgrass, that is, the seed or vegetative material (sod, plugs, and /or sprigs), are planted at a time of the year when temperatures and moisture are adequate to maximize turfgrass establishment. These recommended establishment periods would be late summer to early fall for cool-season turfgrasses and late spring through mid-summer for warm-season turfgrasses.

Nitrogen Applications

At the time of establishment, apply no more than 0.9 pounds per 1,000 ft² of total nitrogen for cool season grasses or 1.0 pounds per 1,000 ft² of total nitrogen for warm season grasses, using a material containing slowly available forms of nitrogen, followed by one or two applications beginning 30 days after planting, not to exceed a total of 1.8 pounds per 1,000 ft² total for cool season grasses and 2.0 pounds per 1,000 ft² for warm season grasses for the establishment period. Applications of WSN cannot exceed more than 0.7 pounds per 1,000 ft² within a 30 day period.

Phosphorus and Potassium Recommendations for Establishment

Soil Test Level	Nutrient Ne	Nutrient Needs (lbs /1000 ft ²⁾ *						
	P ₂ O ₅	K ₂ O						
L	3-4	2-3						
M	2-3	1-2						
Н	2-1	0.5-1						
VH	0	0						

^{*} For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

Fertilizer Application Records										
Customer Information					Management Area Information					
Name:	John W. I	John W. Mason				agen	ent Ar	ea ID:		
Address:	4601 Opport	unity W	/ay		Mana	gem	ent Are	a Size:		
	Williamsburg,	VA 23	188		Р	lant	Species	s:		
Phone #:	757-825	-3694			Notes:					
Date	C	We	ather Cond	litions	Fertiliz	er	D-4-	Am	ount	Application
(M/D/Y)	Supervisor/Applicator	Temp	Wind Speed	Precip	Analys	sis	Rate	Fertilizer Used		Equipment Used
						•				
								-		
				-						

When was the last time your fertilizer equipment was calibrated???

For information on calibration see Chapter 10 of the "Urban Nutrient Management Handbook". Available for download at http://pubs.ext.vt.edu/430/430-350/430-350.html