

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: BMC Apr 2018 Topsoil

Order Number: 37035
Lab Number: S180425-629
Area Sampled: 0.5 acres
Received: 4/25/2018
Reported: 5/9/2018

Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H ₂ O)	6.5		Cation Exch. Capacity, meq/100g	11.9	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	1.6	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	15.7	4-14	Calcium Base Saturation	57	50-80
Potassium (K)	625	100-160	Magnesium Base Saturation	16	10-30
Calcium (Ca)	1353	1000-1500	Potassium Base Saturation	13	2.0-7.0
Magnesium (Mg)	234	50-120	Scoop Density, g/cc	1.00	
Sulfur (S)	25.4	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	9.3	
Boron (B)	0.9	0.1-0.5	Soluble Salts (1:2), dS/m	1.07	<0.6
Manganese (Mn)	17.4	1.1-6.3	Nitrate-N (NO ₃ -N), ppm	51	
Zinc (Zn)	5.6	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	6.5	2.7-9.4			
Aluminum (Al)	36	<75			
Lead (Pb)	4.6	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				

Recommendations for New Lawn Construction

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
0	2 - 4	0	0
lbs / 1000 sq ft			

Comments:

- *Your nitrate level is currently above optimum. Please disregard nitrogen recommendation. No additional nitrogen is needed at this time.
- Soil test phosphorus is above optimum. No additional P2O5 is required.
- For instructions on converting nutrient recommendations to fertilizer applications in home gardens, lawns and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).
- Avoid over-fertilization. In addition to threatening water quality, excessive nutrient applications can compromise plant health and contribute to insect and disease problems. For details, see Reference "Corrective Measures and Management of Over-Fertilized Soils" (listed below).
- For best results, split the N, P2O5, and K2O recommendations above into three to four applications over the course of the growing season at six to eight week intervals, beginning in mid- to late-April.
- Many fertilizer sources and rates may be combined to provide acceptable turfgrass fertility.

References:

Home Lawn and Garden Information	http://ag.umass.edu/resources/home-lawn-garden
Step-by-Step Fertilizer Guide for Home Grounds and Gardening	https://ag.umass.edu/SPNTL-4
Corrective Measures and Management of Over-Fertilized Soils	https://ag.umass.edu/SPNTL-13

Recommendations for Home Vegetable Garden

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
0	.25 - .3	0	0

Comments:

*Soil test values for nitrates, phosphorus and potassium are above optimum. Additional amendments are not recommended at this time.

-For instructions on converting nutrient recommendations to fertilizer applications in home gardens, lawns and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).

-Avoid over-fertilization. In addition to threatening water quality, excessive nutrient applications can compromise plant health and contribute to insect and disease problems. For details, see Reference "Corrective Measures and Management of Over-Fertilized Soils" (listed below).

-The lead level in this soil is LOW. For more information about lead levels in soil, see our Soil Lead Fact Sheet.

References:

Soil Lead: Testing, Interpretation & Recommendations <http://soiltest.umass.edu/fact-sheets/soil-lead-testing-interpretation-recommendations-0>

Home Lawn and Garden Information <http://ag.umass.edu/resources/home-lawn-garden>

Step-by-Step Fertilizer Guide for Home Grounds and Gardening <https://ag.umass.edu/SPNTL-4>

Corrective Measures and Management of Over-Fertilized Soils <https://ag.umass.edu/SPNTL-13>

General References:

Interpreting Your Soil Test Results <http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results>

For current information and order forms, please visit <http://soiltest.umass.edu/>

UMass Extension Nutrient Management <http://ag.umass.edu/agriculture-resources/nutrient-management>