

## Soil Test Report

### Prepared For:

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### Sample Information:

Sample ID: BMC May 2020  
Topsoil/Compost Mix

Order Number: 49812  
Lab Number: S200511-106  
Area Sampled: 0.5 acres  
Received: 5/11/2020  
Reported: 7/13/2020

## 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 <sub>2</sub> O)	6.8		Cation Exch. Capacity, meq/100g	18.4	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	2.6	
<i>Macronutrients</i>			<b>Base Saturation, %</b>		
Phosphorus (P)	21.2	4-14	Calcium Base Saturation	61	50-80
Potassium (K)	684	100-160	Magnesium Base Saturation	15	10-30
Calcium (Ca)	2247	1000-1500	Potassium Base Saturation	10	2.0-7.0
Magnesium (Mg)	340	50-120	<b>Scoop Density, g/cc</b>	0.88	
Sulfur (S)	30.1	>10	<b>Optional tests</b>		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	9.1	
Boron (B)	1.4	0.1-0.5	Soluble Salts (1:2), dS/m	0.56	<0.6
Manganese (Mn)	4.6	1.1-6.3	Nitrate-N (NO <sub>3</sub> -N), ppm	74	
Zinc (Zn)	4.4	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	8.6	2.7-9.4			
Aluminum (Al)	27	<75			
Lead (Pb)	3.7	<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
<b>Phosphorus (P):</b>				
<b>Potassium (K):</b>				
<b>Calcium (Ca):</b>				
<b>Magnesium (Mg):</b>				

***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 lawns, see Reference "Step-by-Step Fertilizer Guide for Lawns" (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.
- The lead level in this soil is less than 22 ppm, which falls below the listed optimum level. However, many variables affect this result, and safety thresholds vary by location and soil use. There is still a potential risk of lead exposure for soils used for growing food or as play areas for children. Our Total Sorbed Metals test provides an accurate measurement of soil lead. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report. ATTN: The Total Sorbed Metals Test is currently unavailable. We apologize for any inconvenience.

**References:**

Home Lawn and Garden Information	<a href="http://ag.umass.edu/resources/home-lawn-garden">http://ag.umass.edu/resources/home-lawn-garden</a>
Corrective Measures and Management of Over-Fertilized Soils	<a href="https://ag.umass.edu/SPNTL-13">https://ag.umass.edu/SPNTL-13</a>
Step-by-Step Fertilizer Guide for Lawns	<a href="http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/fertilizer-guide-for-lawns">http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/fertilizer-guide-for-lawns</a>

***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 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 less than 22 ppm, which falls below the listed optimum level. However, many variables affect this result, and safety thresholds vary by location and soil use. There is still a potential risk of lead exposure for soils used for growing food or as play areas for children. Our Total Sorbed Metals test provides an accurate measurement of soil lead. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report. ATTN: The Total Sorbed Metals Test is currently unavailable. We apologize for any inconvenience.

**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>

**General References:**

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

Soil Lead: Testing, Interpretation & Recommendations <http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet>

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

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