

## Soil Test Report

### Prepared For:

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### Sample Information:

Sample ID: Frankie

Order Number: 38323

Lab Number: S180531-117

Area Sampled: 90 sq ft

Received: 5/31/2018

Reported: 6/13/2018

## 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 <sub>2</sub> O)	7.5		Cation Exch. Capacity, meq/100g	32.6	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	0.0	
<i>Macronutrients</i>			<b>Base Saturation, %</b>		
Phosphorus (P)	759.3	4-14	Calcium Base Saturation	87	50-80
Potassium (K)	197	100-160	Magnesium Base Saturation	12	10-30
Calcium (Ca)	5663	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	459	50-120	<b>Scoop Density, g/cc</b>	1.18	
Sulfur (S)	75.0	>10	<b>Optional tests</b>		
<i>Micronutrients *</i>			Nitrate-N (NO <sub>3</sub> -N), ppm	309	
Boron (B)	1.3	0.1-0.5			
Manganese (Mn)	10.8	1.1-6.3			
Zinc (Zn)	49.1	1.0-7.6			
Copper (Cu)	1.3	0.3-0.6			
Iron (Fe)	4.8	2.7-9.4			
Aluminum (Al)	7	<75			
Lead (Pb)	9.2	<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):				

**Phosphorus is excessive.**

***Recommendations for Flowers, Roses, & Herbs***

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
0	.1 - .2	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).

-When pH is greater than 6.8, Cation Exchange Capacity (CEC) tends to be overestimated.

-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>