

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: Culvert

Order Number: 41099

Lab Number: S181026-129

Area Sampled: 6000 sq ft

Received: 10/29/2018

Reported: 11/1/2018

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)	5.6		Cation Exch. Capacity, meq/100g	9.1	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	5.7	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	1.2	4-14	Calcium Base Saturation	30	50-80
Potassium (K)	72	100-160	Magnesium Base Saturation	5	10-30
Calcium (Ca)	548	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	59	50-120	Scoop Density, g/cc	0.99	
Sulfur (S)	16.2	>10			
<i>Micronutrients *</i>					
Boron (B)	0.0	0.1-0.5			
Manganese (Mn)	19.0	1.1-6.3			
Zinc (Zn)	0.7	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	17.7	2.7-9.4			
Aluminum (Al)	202	<75			
Lead (Pb)	0.9	<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 Deciduous Trees, Shrubs & Vines-Establishment

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
5	.1 - .2	0.25	0.25

Comments:

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 2.1 lbs. Bone Meal (4-12-0) OR 0.6 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-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).

-Use native soil to fill around the roots when planting. If the soil is light sand or heavy clay, mix in some peat moss or compost. Maintain a 2 to 4 inch organic mulch to help conserve moisture and improve soil conditions.

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>

Recommendations for Deciduous Trees, Shrubs & Vines-Maintenance

Limestone (Target pH of 6.0)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
5	.1 - .2	0.25	0.25

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-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).

-Maintaining a 2 to 4 inch organic mulch will help conserve moisture and improve soil conditions.

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Recommendations for Acid-loving Trees, Shrubs, & Groundcover-Establishment

Limestone (Target pH of 5.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
0	.1 - .2	0.1	0.1

Comments:

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 0.8 lbs. Bone Meal (4-12-0) OR 0.2 lb. Triple Phosphate (0-45-0) per 100 square feet.

*To supply Potassium, apply 0.2 lbs. Potash (0-0-60) per 100 square feet.

-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).

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Recommendations for Acid-loving Trees, Shrubs, & Groundcover-Maintenance

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Soil and Plant Nutrient Testing Laboratory

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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>