



## Soil Test Report

### Prepared For:

Byron Palmer  
 Sonoma Mountain Institute  
 4080 Manor Lane  
 Petaluma, CA 94954

byronpalmer@hotmail.com  
 619-818-7669

### Sample Information:

Sample ID: C4

Order Number: 16488

Lab Number: S150812-106

Area Sampled:

Received: 8/12/2015

Reported: 8/18/2015

## 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, H2O)	5.1		Cation Exch. Capacity, meq/100g	18.6	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	10.1	
<i>Macronutrients</i>			<b>Base Saturation, %</b>		
Phosphorus (P)	1.8	4-14	Calcium Base Saturation	32	50-80
Potassium (K)	299	100-160	Magnesium Base Saturation	10	10-30
Calcium (Ca)	1186	1000-1500	Potassium Base Saturation	4	2.0-7.0
Magnesium (Mg)	223	50-120	<b>Scoop Density, g/cc</b>	0.81	
Sulfur (S)	12.2	>10	<b>Optional tests</b>		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	13.1	
Boron (B)	0.3	0.1-0.5	Nitrate-N (NO3-N), ppm	2	
Manganese (Mn)	17.9	1.1-6.3			
Zinc (Zn)	1.7	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	10.1	2.7-9.4			
Aluminum (Al)	93	<75			
Lead (Pb)	1.2	<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
<b>Phosphorus (P):</b>				
<b>Potassium (K):</b>				
<b>Calcium (Ca):</b>				
<b>Magnesium (Mg):</b>				



**Soil and Plant Tissue Testing Laboratory**  
 203 Paige Laboratory  
 161 Holdsworth Way  
 University of Massachusetts  
 Amherst, MA 01003  
 Phone: (413) 545-2311  
 e-mail: soiltest@umass.edu  
 website: soiltest.umass.edu



***Recommendations for Grass Pasture - Intensively Managed***

<b>Limestone (Target pH of 6.5)</b>	<b>Nitrogen, N</b>	<b>Phosphorus, P2O5</b>	<b>Potassium, K2O</b>
<b>8000</b>	<b>100</b>	<b>70</b>	<b>0</b>

**lbs / acre**

**Comments:**

-Calcitic limestone is acceptable since soil magnesium levels are sufficient.

**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/>