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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Submitted By: DARLENE NICHOLSON

SOIL ANALYSIS

Client :	Grower :	
DARLENE NICHOLSON 8409 HAWKINS CREAMERY RD GAITHERSBURG MD 20882	DERWOOD DEMO GARDEN	Report No: 13-102-0718 Cust No: 01798 Date Printed: 04/16/2013 Date Received : 04/12/2013 PO: Page : 1 of 3

Lab Number : 17461 **Field Id :** **Sample Id :** VEG GARDEN

Test	Method	Results
Soil pH	1:1	6.8
Buffer pH		6.86
Phosphorus (P)	M3	302 ppm
Potassium (K)	M3	320 ppm
Calcium (Ca)	M3	3511 ppm
Magnesium (Mg)	M3	575 ppm
Sulfur (S)	M3	10 ppm
Boron (B)	M3	2.5 ppm
Copper (Cu)	M3	5.8 ppm
Iron (Fe)	M3	325 ppm
Manganese (Mn)	M3	69 ppm
Zinc (Zn)	M3	27.5 ppm
Sodium (Na)		
Soluble Salts		
Organic Matter	WB	9.9 % ENR 150
Nitrate Nitrogen		

Calculated Cation Exchange Capacity: **23.9** meq/100g

Calculated Cation Saturation	
%K	3.4
%Ca	73.5
%Mg	20.0
%H	2.9
Hmeq	0.7

K : Mg Ratio	Ca : Mg Ratio
0.17	3.68

SOIL FERTILITY GUIDELINES

Crop : Garden-Home **Yield Goal :** 0 **Rec Units:** LB/1000 SF

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	1.5	0	0	0	0.58	0	0	0	0	0
Crop :							**Rec Units:**			

Comments :

Garden-Home

· All recommended fertilizers are on actual elemental basis. To convert to product basis, divide the recommended quantity in the first page by the percentage of the active ingredient then multiply by 100.

· Use Ammonium Sulfate as N source to supply sulfur.

· For more in depth explanation, go to our website www.aleastern.com and select the "Lawn and Garden" tab at the top of home page. At the bottom of the "Lawn and Garden" page, you find information explaining a soil test report and fertilizer recommendations. http://aleastern.com/forms/LawnGardenSoilTestExplained.pdf

· Most vegetable crops need additional N about one month after emergence or transplanting. Sidedress 1.5-2.5 pounds of N per1000 square feet for green leafy vegetables, tomatoes, peppers, sweet corn, etc., and 0.5-1.5 pounds of N per1000 square feet for peas, beans, melons, cucumbers, carrots, root crops, etc. On tomatoes do not apply additional N until first fruit set are the size of a half dollar, two applications may be needed for long season varieties.

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GAITHERSBURG MD 20882

Grower :
DERWOOD DEMO GARDEN

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Page : 2 of 3

Lab Number : 17462 **Field Id :** **Sample Id :** SHADE

Test	Method	Results
Soil pH	1:1	5.3
Buffer pH		6.38
Phosphorus (P)	M3	139 ppm
Potassium (K)	M3	153 ppm
Calcium (Ca)	M3	1884 ppm
Magnesium (Mg)	M3	276 ppm
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)		
Soluble Salts		
Organic Matter	WB	9.9 % ENR 150
Nitrate Nitrogen		

Calculated Cation Exchange Capacity
17.6
meq/100g

Calculated Cation Saturation

%K	2.2
%Ca	53.5
%Mg	13.1
%H	31.0
Hmeq	5.5

K : Mg Ratio
0.17

Ca : Mg Ratio
4.08

SOIL FERTILITY GUIDELINES

Crop : Annual Flowers **Yield Goal :** 0 **Rec Units:** LB/1000 SF

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
150	2.5	0	2.0	0						

Crop : Perennials **Yield Goal :** 0 **Rec Units:** LB/1000 SF

150	2.5	0	2.0	0						

Comments :

Annual Flowers

Limestone application is targeted to bring soil pH to 6.2.

· All recommended fertilizers are on actual elemental basis. To convert to product basis, divide the recommended quantity in the first page by the percentage of the active ingredient then multiply by 100.

· For best result, if there are no existing plants, broadcast all lime then till and mix 6 inches into the soil. Limit the lime application to 50 pounds per 1000 sq. ft. for existing plants, apply every 4-6 months until the recommended amount is fulfilled.

· Apply the amount of lime recommended in first page to raise pH

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Perennials

Limestone application is targeted to bring soil pH to 6.2.

M3 - Mehlich 3 WB - Walkley Black Color 1:1 - Water pH
Analysis prepared by: A&L Eastern Laboratories, Inc.

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SOIL ANALYSIS

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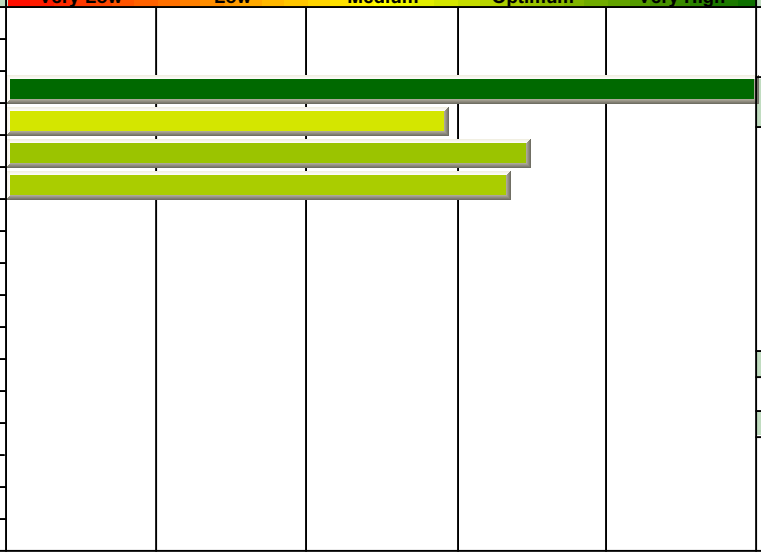
Lab Number : 17463 **Field Id :** **Sample Id :** SUN

Test	Method	Results
Soil pH	1:1	6.9
Buffer pH		6.90
Phosphorus (P)	M3	244 ppm
Potassium (K)	M3	170 ppm
Calcium (Ca)	M3	3519 ppm
Magnesium (Mg)	M3	496 ppm
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)		
Soluble Salts		
Organic Matter	WB	10.2 % ENR 150
Nitrate Nitrogen		



Calculated Cation Exchange Capacity: **22.5** meq/100g

Calculated Cation Saturation

%K	1.9
%Ca	78.2
%Mg	18.4
%H	1.4
Hmeq	0.3

K : Mg Ratio 0.11

Ca : Mg Ratio 4.25

SOIL FERTILITY GUIDELINES

Crop : Annual Flowers **Yield Goal :** 0 **Rec Units:** LB/1000 SF

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	2.5	0	2.0	0						

Crop : Perennials **Yield Goal :** 0 **Rec Units:** LB/1000 SF

0	2.5	0	2.0	0						

Comments :

Annual Flowers

· All recommended fertilizers are on actual elemental basis. To convert to product basis, divide the recommended quantity in the first page by the percentage of the active ingredient then multiply by 100.

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M3 - Mehlich 3 WB - Walkley Black Color 1:1 - Water pH
Analysis prepared by: A&L Eastern Laboratories, Inc.