

Submitted by **9370601**
Bio Ag Nutrient Solutions, Inc.
4218 W Muscat Avenue
Fresno, CA 93706-9189

Submitted for
PURWALL FARMS

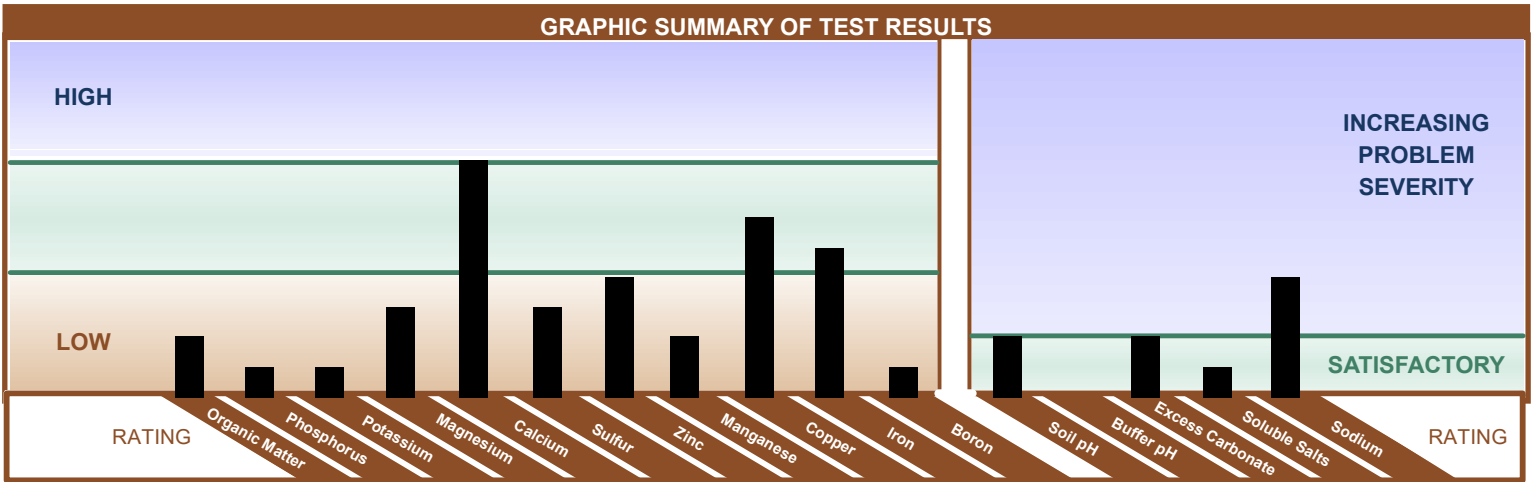
Laboratory Sample #
BD26995

Date Received
26-Oct-2017

Date Reported
27-Oct-2017

Information Sheet #
144288

Laboratory Turnaround **1 Day** Samples Will Be Stored Until **10-Nov-2017** Field Identification



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
NW	
Soil pH	7.3
Buffer Index	--
Excess Carbonate	L
Soluble Salts mmhos/cm	0.1
Sodium ppm	41.0
% Organic Matter	0.5
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	3.1
Phosphorus Bray 1 Olsen	4
Potassium	34
Magnesium	38
Calcium	438
Sulfate Sulfur	5
Zinc	0.8
Manganese	1.3
Copper	0.9
Iron	9.5
Boron	0.1
Bulk Density	1.5

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Gypsum				Gypsum				Gypsum			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED			
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil	
0.0	0 - 5	3.1	4.1 - 7	11.4	15 - 20	79.0	65 - 75	6.4	0 - 5	2.8	

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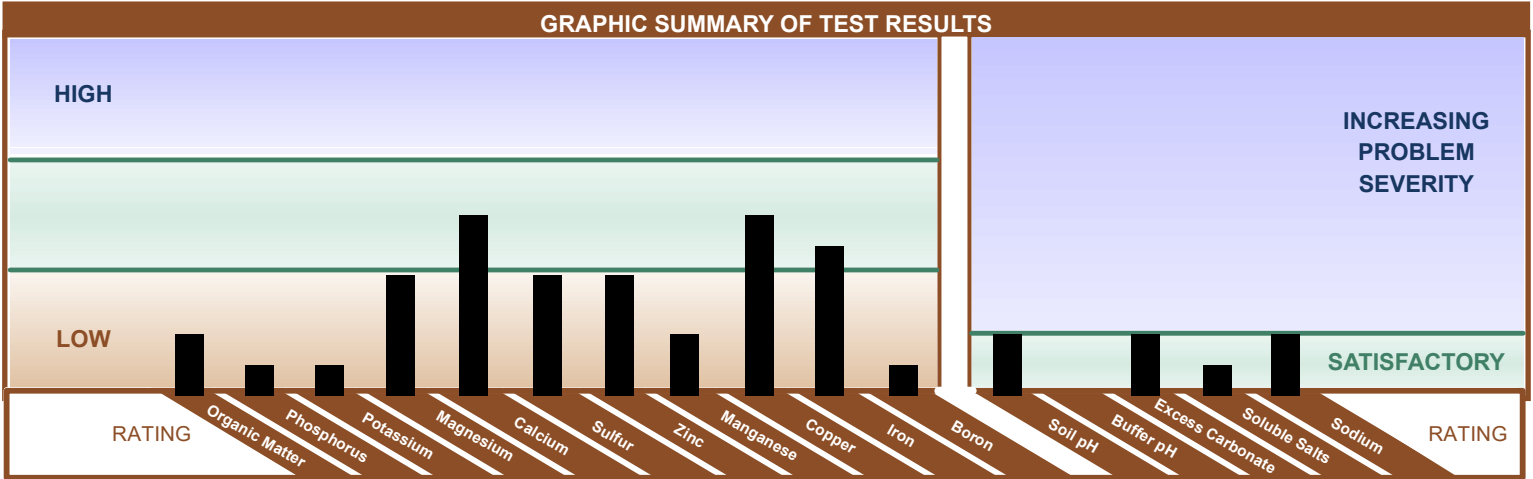
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REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
EAST	
Soil pH	7.3
Buffer Index	--
Excess Carbonate Soluble Salts mmhos/cm	L
Sodium ppm	26.0
% Organic Matter	0.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	3.8
Phosphorus Bray 1 Olsen	3
Potassium	54
Magnesium	41
Calcium	352
Sulfate Sulfur	6
Zinc	0.9
Manganese	1.1
Copper	0.8
Iron	10.0
Boron	0.1
Bulk Density	1.7

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
0.0	0 - 5	5.9	4.1 - 7	14.5	15 - 20	74.8	65 - 75	4.8	0 - 5	2.4

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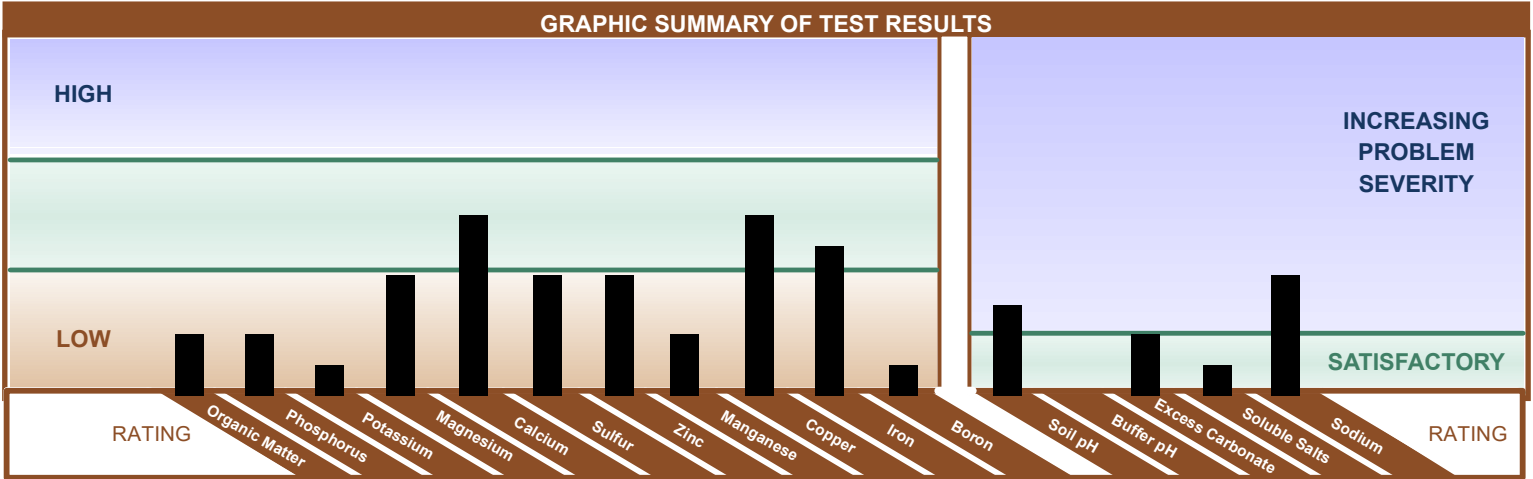
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Laboratory Turnaround **1 Day** Samples Will Be Stored Until **10-Nov-2017** Field Identification



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
MIDDLE	
Soil pH	7.3
Buffer Index	--
Excess Carbonate Soluble Salts mmhos/cm	L
Sodium ppm	41.0
% Organic Matter	0.5
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	3.7
Phosphorus Bray 1 Olsen	6
Potassium	69
Magnesium	46
Calcium	423
Sulfate Sulfur	6
Zinc	0.9
Manganese	1.2
Copper	0.9
Iron	10.6
Boron	0.1
Bulk Density	1.6

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Gypsum				Gypsum				Gypsum			

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ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED		
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil
0.0	0 - 5	6.2	4.1 - 7	13.4	15 - 20	74.1	65 - 75	6.2	0 - 5	2.9

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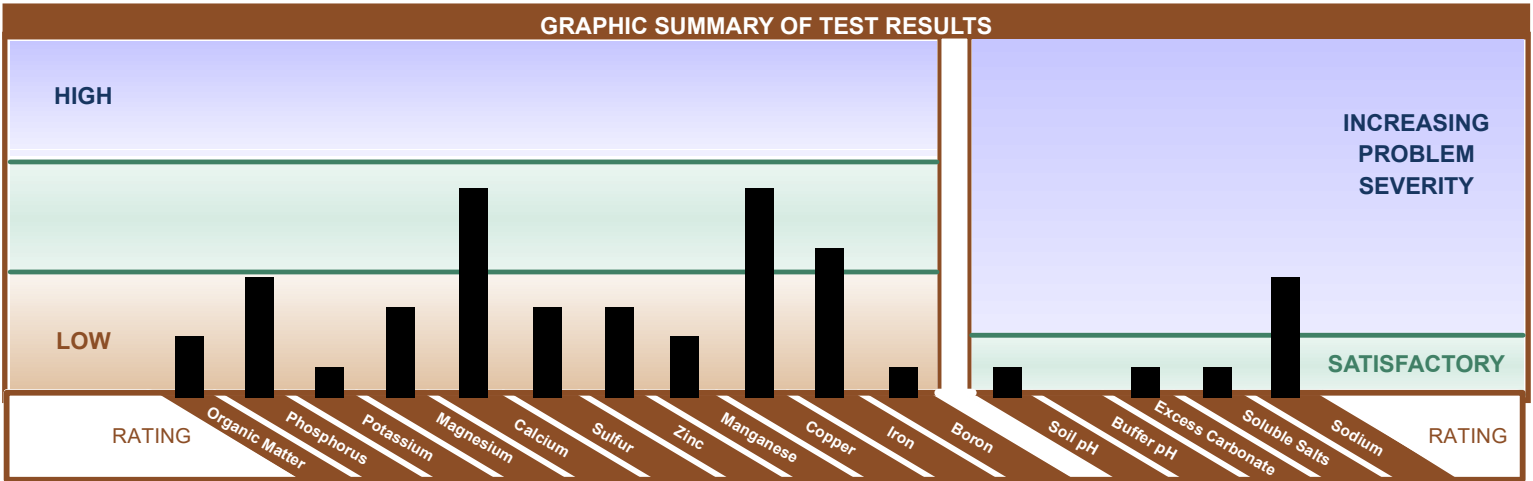
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BD26998

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144288

Laboratory Turnaround **1 Day** Samples Will Be Stored Until **10-Nov-2017** Field Identification



REPORT OF ANALYSIS	
YOUR SAMPLE NUMBER	
GOOD	
Soil pH	7.2
Buffer Index	--
Excess Carbonate	VL
Soluble Salts mmhos/cm	0.1
Sodium ppm	33.0
% Organic Matter	0.4
ANALYSIS OF NUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)	
Nitrate N	3.3
Phosphorus Bray 1	19
Olsen	--
Potassium	43
Magnesium	38
Calcium	395
Sulfate Sulfur	5
Zinc	0.7
Manganese	1.0
Copper	1.0
Iron	9.8
Boron	0.1
Bulk Density	1.5

FERTILIZER GUIDELINES IN: Lbs/Acre											
1st Option Intended Crop				2nd Option Intended Crop				3rd Option Intended Crop			
Yield Goal				Yield Goal				Yield Goal			
Preceding Crop				Preceding Crop				Preceding Crop			
PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES		PLANT FOOD GUIDELINE RANGES		CROP REMOVAL RATES	
N				N				N			
P ₂ O ₅				P ₂ O ₅				P ₂ O ₅			
K ₂ O				K ₂ O				K ₂ O			
MgO				MgO				MgO			
S				S				S			
Zn				Zn				Zn			
Mn				Mn				Mn			
Cu				Cu				Cu			
Fe				Fe				Fe			
B				B				B			
Gypsum				Gypsum				Gypsum			

Lime Guidelines are for 100% Effective Calcium Carbonate (ECC) with a 6" Incorporation Depth.

ACTUAL AND SUGGESTED PERCENT OF TOTAL CEC (BASE SATURATION)								ESTIMATED			
Actual % Hydrogen	Suggested Hydrogen	Actual % Potassium	Suggested Potassium	Actual % Magnesium	Suggested Magnesium	Actual % Calcium	Suggested Calcium	Actual % Sodium	Suggested Sodium	CEC for Your Soil	
0.0	0 - 5	4.3	4.1 - 7	12.4	15 - 20	77.6	65 - 75	5.6	0 - 5	2.5	