

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

Work Order #: 0080374
Account #: 8956
Date Received: Aug 13, 2020
Date Reported: Sep 3, 2020

Soil Report

Plant Nutrition Tech.- AMPI
268 Rocky Point Road
Oroville, CA 95966
Attn: Dennis Amoroso

Lab Number: 0080374-1/1
Project #/Name: None / None
Sample ID: Blend 820

Your Values (lbs/acre 6" deep)			Suggested Values	RECOMMENDATIONS ALL VALUES lbs/acre 6" deep		
Ammonia (NH ₃ -N)	810		10-50 High	0 Nitrogen (N)		
Nitrate (NO ₃ -N)	4.9		20-100 Low	0 Phosphorous (P ₂ O ₅)		
Total Available N	810		75-150 High	0 Potassium (K ₂ O)		
Phosphorous(P ₂ O ₅)	280		100-300 OK	6000 Gypsum (CaSO ₄)		
Potassium (K ₂ O)	6600		1162-1937 High	0 Lime (CaCO ₃)		
Calcium (Ca)	6100		9903-12379 Low	0 Dolomite (CaCO ₃ & MgCO ₃)		
Magnesium (Mg)	430		990-1980 Low	0 Sulfur		
Sulfate (SO ₄ -S)	680		100-200 High	*Gypsum adds Ca and doesn't affect pH; Lime adds Ca and raises pH; Dolomite adds Ca & Mg & raises pH.		
Sodium (Na)	6600		< 250 See SAR	Lime Requirement:		
Chloride (Cl)	1800		1-100 High	Tons of 100% CaCO ₃ Lime per Acre 6" deep		
ECe (dS/m)	6.6		0.2-4 High	needed to raise pH of soil to:		
Copper (Cu)	3.9		1 + OK	pH 6.0 needs 0.0		
Zinc (Zn)	1.7		3 + Low	pH 6.5 needs 0.0		
Iron (Fe)	73		8 + OK	pH 7.0 needs 0.0		
Manganese (Mn)	50		4 + OK	Gypsum Requirement (needed for clay treatment)		
Boron (B)	0.45		1-4 Low	2.9 tons per acre 6" deep		
SAR	27		0-6 High	Gypsum helps the soil structure by "loosening" the soil		
CEC (meq/100gms)	41		10-20 OK			
ESP (%)	35		0-10 High			
pHs Value	7.4		6.5-7.5 OK			
Organic Matter (%)	8.0					
Data:		Method	Data:		Method	
NO ₃ -N	2.4 mg/Kg	KCl	OrgMat	8.0 %	WalkBk	
NH ₃ -N	400 mg/Kg	KCl	Org-C	4.6 %	WalkBk	
P	64 mg/Kg	Olsen	SMP Buffer pH	7.25 unit	SMP	
SP	65 %	Sat	GypReq	3.4 meq/100g	GypSol	
pHs	7.4 unit	Sat	Ca	3000 mg/Kg	NH ₄ OAc	
ECe	6.6 dS/m	Sat	Mg	220 mg/Kg	NH ₄ OAc	
Ca	5.9 meq/L	Sat	Na	3300 mg/Kg	NH ₄ OAc	
Mg	3.5 meq/L	Sat	K	2800 mg/Kg	NH ₄ OAc	
Na	59 meq/L	Sat				
K	1.4 meq/L	Sat				
Cl	38 meq/L	Sat				
SO ₄ -S	16 meq/L	Sat	Cation Exchange Capacity (CEC) and Base Saturation Percentages			
SAR	27 ratio	Calc	CEC	41 meq/100gm	Calc.	
B	0.22 mg/Kg	CaCl2	NH ₃ -N	7.0 % of CEC	Calc.	
Cu	2.0 mg/Kg	DTPA	Ca	36.8 % of CEC	Calc.	
Zn	0.87 mg/Kg	DTPA	Mg	4.4 % of CEC	Calc.	
Fe	37 mg/Kg	DTPA	Na	34.7 % of CEC	Calc.	
Mn	25 mg/Kg	DTPA	K	17.1 % of CEC	Calc.	
			H	0.0 % of CEC	Calc.	

Lab Analyst:

Mike Galloway