ANALYTICAL CHEMISTS and BACTERIOLOGISTS Approved by State of California
SOIL CONTROL LAB
42 HANGAR WAY WATSONVILLE CALIFORNIA 95076 USA

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Work Order #: Example

Basic Plus Trace Soil Package - $79.00

Soil Report

Your name and address here

Lab Number: XXXXXXXX
Project #/Name: XXXXX / XXXXX
Sample ID: Your soil sample ID

	Your Values (lbs/acre 6" deep)	Suggested Values	
Ammonia (NH_3-N)	8.1	10-50	Low
Nitrate (NO_3-N)	24	20-100	OK
Total Available N	32	75-150	Low
Phosphorous(P_2O_5)	110	100-300	OK
Potassium (K_2O)	320	450-750	Low
Calcium (Ca)	2700	2716-3395	Low
Magnesium (Mg)	940	300-600	High
Sulfate (SO_4-S)	200	100-200	OK
Sodium (Na)	170	< 250	OK
Chloride (Cl)	21	1-100	OK
ECe (dS/m)	1.0	0.2-4	OK
Copper (Cu)	2.2	1 +	OK
Zinc (Zn)	3.3	3 +	OK
Iron (Fe)	93	8 +	OK
Manganese (Mn)	7.7	4 +	OK
Boron (B)	0.68	1-4	Low
SAR	NA	0-6	
CEC (meq/100gms)	11	10-20	OK
ESP (%)	3.3	0-10	OK
pHs Value	5.9	6.5-7.5	Low
Organic Matter (%)	NA		

RECOMMENDATIONS
ALL VALUES lbs/acre 6" deep

100	Nitrogen (N)
150	Phosphorous (P_2O_5)
300	Potassium (K_2O)
0	Gypsum ($CaSO_4$)
3000	Lime ($CaCO_3$)
0	Dolomite ($CaCO_3$ & $MgCO_3$)
0	Sulfur

*Gypsum adds Ca and doesn't affect pH; Lime adds Ca and raises pH; Dolomite adds Ca & Mg & raises pH.

Lime Requirement:
Tons of 100% $CaCO_3$ Lime per Acre 6" deep needed to raise pH of soil to:

pH 6.0 needs	NA
pH 6.5 needs	NA
pH 7.0 needs	NA

Gypsum Requirement (needed for clay treatment)
NA tons per acre 6" deep
Gypsum helps the soil structure by "loosening" the soil

Data:			Method
NO_3-N	12	mg/Kg	KCl
NH_3-N	4.0	mg/Kg	KCl
P	25	mg/Kg	Olsen
SP	47	%	Sat
pHs	5.9	unit	Sat
ECe	1.0	dS/m	Sat
Ca	NA	meq/L	Sat
Mg	NA	meq/L	Sat
Na	NA	meq/L	Sat
K	NA	meq/L	Sat
Cl	0.63	meq/L	Sat
SO_4-S	6.6	meq/L	Sat
SAR	NA	ratio	Calc
B	0.34	mg/Kg	CaCl2
Cu	1.1	mg/Kg	DTPA
Zn	1.6	mg/Kg	DTPA
Fe	46	mg/Kg	DTPA
Mn	3.9	mg/Kg	DTPA

Data:			Method
OrgMat	NA	%	LOI
Org-C	NA	%	LOI
SMP Bufffer pH	7.04	unit	SMP
GypReq	NA	meq/100g	GypSol
Ca	1300	mg/Kg	NH_4OAc
Mg	470	mg/Kg	NH_4OAc
Na	86	mg/Kg	NH_4OAc
K	130	mg/Kg	NH_4OAc

Cation Exchange Capacity (CEC) and Base Saturation Percentages

CEC	11	meq/100gm	Calc.
NH_3-N	0.3	% of CEC	Calc.
Ca	59.0	% of CEC	Calc.
Mg	34.5	% of CEC	Calc.
Na	3.3	% of CEC	Calc.
K	3.0	% of CEC	Calc.
H	0.0	% of CEC	Calc.

Lab Analyst: