NCDA&CS Agronomic Division Phone: (919)733-2655 Web Site: www.ncagr.com/agronomi/ Report No: 39175

Soil Test Report

Grower: **Roberson, Allen**
6049 Hwy 301 N
Elm City, NC 27822

Copies To: Stone, Scott

Farm: GARDNER

Wilson County

4/27/2011 SERVING N.C. RESIDENTS FOR OVER 60 YEARS

Agronomist Comments

The heavy metal report is found on a separate page. Using Mehlich 3 as a soil test extractant, background levels of these metals typically seen in NC soils when analyzed are as follows: arsenic (As)- 4.5 ppm, cadmium (Cd)- 0.1 ppm, chromium (Cr)- 0.2 ppm, lead (Pb)- 4.2 ppm, nickel (Ni)- 0.8 ppm, & selenium (Se)- 0.2 ppm (FY2005-2007). Although the above metals here are not believed to pose a concern for plant growth, continue to monitor these and note where elevated above background levels.

Note any lime and fertilizer recommendations. Where soil test phosphorus (P) is very high (P-I > 100), crops will not respond to additional P applied. Where the sulfur index (S-I) is 25 or less, sulfur at a rate of 20 to 25 lbs per acre may be of benefit.

Jeana Myers, Agronomist
April 27, 2011

Field Information		Applied Lime			Recommendations												
Sample No.	*Last Crop*	*Mo*	*Yr*	*T/A*	*Crop or Year*		*Lime*	*N*	*P_2O_5*	*K_2O*	*Mg*	*S*	*Cu*	*Zn*	*B*	*Mn*	*See Note*
F1					1st Crop:	Small Grains	1T	80-100	0	60-80	0	0	2	0	.0	0	3
					2nd Crop:	Berm Hay/Pas,E	0	60-80	0	60-80	0	0	$	0		0	12

Test Results

Soil Class	*HM%*	*W/V*	*CEC*	*BS%*	*Ac*	*pH*	*P-I*	*K-I*	*Ca%*	*Mg%*	*Mn-I*	*Mn-Al(1)*	*Mn-Al(2)*	*Zn-I*	*Zn-Al*	*Cu-I*	*S-I*	*SS-I*	*NO_3-N*	*NH_4-N*	*Na*
MIN	0.27	1.69	2.9	62.0	1.1	5.6	224	36	43.0	13.0	41	27	34	59	59	18	26				0.0

Field Information		Applied Lime			Recommendations												
Sample No.	*Last Crop*	*Mo*	*Yr*	*T/A*	*Crop or Year*		*Lime*	*N*	*P_2O_5*	*K_2O*	*Mg*	*S*	*Cu*	*Zn*	*B*	*Mn*	*See Note*
F2					1st Crop:	Berm Hay/Pas,E	.9T	60-80	0	60-80	0	0	$	0		0	12
					2nd Crop:	Small Grains	0	80-100	0	60-80	0	0	2	0	.0	0	3

Test Results

Soil Class	*HM%*	*W/V*	*CEC*	*BS%*	*Ac*	*pH*	*P-I*	*K-I*	*Ca%*	*Mg%*	*Mn-I*	*Mn-Al(1)*	*Mn-Al(2)*	*Zn-I*	*Zn-Al*	*Cu-I*	*S-I*	*SS-I*	*NO_3-N*	*NH_4-N*	*Na*
MIN	0.22	1.56	3.1	68.0	1.0	5.8	220	34	48.0	16.0	49	39	32	76	76	18	27				0.0

Field Information		Applied Lime			Recommendations												
Sample No.	*Last Crop*	*Mo*	*Yr*	*T/A*	*Crop or Year*		*Lime*	*N*	*P_2O_5*	*K_2O*	*Mg*	*S*	*Cu*	*Zn*	*B*	*Mn*	*See Note*
F3					1st Crop:	Small Grains	.9T	80-100	0	60-80	0	0	2	0	.0	10	3
					2nd Crop:	Berm Hay/Pas,E	0	60-80	0	60-80	0	0	$	0		0	12

Test Results

Soil Class	*HM%*	*W/V*	*CEC*	*BS%*	*Ac*	*pH*	*P-I*	*K-I*	*Ca%*	*Mg%*	*Mn-I*	*Mn-Al(1)*	*Mn-Al(2)*	*Zn-I*	*Zn-Al*	*Cu-I*	*S-I*	*SS-I*	*NO_3-N*	*NH_4-N*	*Na*
MIN	0.32	1.60	3.0	67.0	1.0	5.7	86	34	45.0	17.0	36	24	31	53	53	14	30				0.0

Field Information		Applied Lime			Recommendations												
Sample No.	*Last Crop*	*Mo*	*Yr*	*T/A*	*Crop or Year*		*Lime*	*N*	*P_2O_5*	*K_2O*	*Mg*	*S*	*Cu*	*Zn*	*B*	*Mn*	*See Note*
F4					1st Crop:	Small Grains	1T	80-100	0	50-70	0	0	2	0	.0	10	3
					2nd Crop:	Berm Hay/Pas,E	0	60-80	0	50-70	0	0	$	0		0	12

Test Results

Soil Class	*HM%*	*W/V*	*CEC*	*BS%*	*Ac*	*pH*	*P-I*	*K-I*	*Ca%*	*Mg%*	*Mn-I*	*Mn-Al(1)*	*Mn-Al(2)*	*Zn-I*	*Zn-Al*	*Cu-I*	*S-I*	*SS-I*	*NO_3-N*	*NH_4-N*	*Na*
MIN	0.27	1.64	3.1	65.0	1.1	5.6	167	41	44.0	15.0	27	19	26	56	56	19	26				0.0

Field Information		Applied Lime			Recommendations												
Sample No.	*Last Crop*	*Mo*	*Yr*	*T/A*	*Crop or Year*		*Lime*	*N*	*P_2O_5*	*K_2O*	*Mg*	*S*	*Cu*	*Zn*	*B*	*Mn*	*See Note*
F5					1st Crop:	Small Grains	1.7T	80-100	0	30-50	0	0	0	0	.0	0	3
					2nd Crop:	Berm Hay/Pas,E	0	60-80	0	30-50	0	0	0	0		0	12

Test Results

Soil Class	*HM%*	*W/V*	*CEC*	*BS%*	*Ac*	*pH*	*P-I*	*K-I*	*Ca%*	*Mg%*	*Mn-I*	*Mn-Al(1)*	*Mn-Al(2)*	*Zn-I*	*Zn-Al*	*Cu-I*	*S-I*	*SS-I*	*NO_3-N*	*NH_4-N*	*Na*
MIN	0.66	1.55	4.6	61.0	1.8	5.3	289	54	43.0	13.0	46	30	37	66	66	29	43				0.1

Heavy Metal Soil Test Report

Report #: 39175

MEHLICH-3 EXTRACTION

Roberson, Allen
6049 Hwy 301 N
Elm City, NC 27822

Wilson County

Questions concerning these analyses should be referred to the Agronomic Division, Soil Testing

Sample ID	Cd Cadmium	Ni Nickel	P b Lead	Se Selenium	Cr Chromium	As Arsenic	Al Aluminum	Fe Iron
	mq/dm3 (ppm)							
F1	0.10	0.10	6.40	0.00	0.40	0.40	1,063.00	145.30
F3	0.00	0.10	3.10	0.00	0.20	0.20	993.20	158.90
F4	0.00	0.10	4.80	0.10	0.30	0.30	916.90	136.90
F2	0.00	0.10	8.10	0.00	0.40	0.50	987.20	159.00
F5	0.10	0.20	6.70	0.00	0.40	0.70	1,421.00	241.80