

# Soil Report

Job Name: **THCC100-PEAK CC**

Date: 3/30/2022

Company: Tom Irwin Inc

Submitted By: Rob Larson

Sample Location		Green	Green	Green	Green	
Sample ID		1	4	10	15	
Lab Number		37	38	39	40	
Sample Depth in inches		4	4	4	4	
Total Exchange Capacity (M. E.)		1.66	1.84	1.69	1.70	
pH of Soil Sample		6.6	6.2	6.5	6.3	
Organic Matter, Percent		1.34	1.49	1.37	1.22	
<b>ANIONS</b>	<b>SULFUR:</b> p.p.m.	8	9	10	10	
	<b>Mehlich III Phosphorous:</b> as (P <sub>2</sub> O <sub>5</sub> ) lbs / acre	239	244	233	282	
<b>EXCHANGEABLE CATIONS</b>	<b>CALCIUM:</b> lbs / acre	Desired Value	301	333	306	308
		Value Found	281	284	278	261
		Deficit	-20	-49	-28	-47
	<b>MAGNESIUM:</b> lbs / acre	Desired Value	134	134	134	134
		Value Found	47	44	42	46
		Deficit	-87	-90	-92	-88
	<b>POTASSIUM:</b> lbs / acre	Desired Value	134	134	134	134
		Value Found	26	31	29	33
		Deficit	-108	-103	-105	-101
	<b>SODIUM:</b> lbs / acre	27	36	36	33	
	<b>BASE SATURATION %</b>	Calcium (60 to 70%)	63.36	57.94	61.64	57.52
		Magnesium (10 to 20%)	17.66	14.96	15.52	16.90
Potassium (2 to 5%)		3.01	3.24	3.30	3.73	
Sodium (.5 to 3%)		5.24	6.45	6.99	6.39	
Other Bases (Variable)		4.80	5.20	4.90	5.10	
Exchangeable Hydrogen (10 to 15%)		6.00	12.00	7.50	10.50	
<b>TRACE ELEMENTS</b>	Boron (p.p.m.)	0.46	0.31	0.37	0.23	
	Iron (p.p.m.)	138	142	136	157	
	Manganese (p.p.m.)	17	17	16	13	
	Copper (p.p.m.)	0.76	0.82	0.91	0.86	
	Zinc (p.p.m.)	2.31	3.43	3.19	2.64	
	Aluminum (p.p.m.)	207	228	218	258	
<b>OTHER</b>	Ammonium (p.p.m.)	0.9	0.8	0.9	1	
	Nitrate (p.p.m.)	1.5	4.3	1	2.3	
	Silicon ppm	2.9	2.8	3.3	3.1	

# Saturated Paste Report

Job Name **THCC100-PEAK CC**

Date **3/30/2022**

Company **Tom Irwin Inc**

Submitted By **Rob Larson**

<i>Sample Location</i>			Green	Green	Green	Green	
<i>Sample ID</i>			1	4	10	15	
<i>Lab Number</i>			178318	178319	178320	178321	
<i>Water Used</i>			DI	DI	DI	DI	
<i>pH</i>			6.6	6.2	6.5	6.3	
<i>Soluble Salts</i> ppm			24	29	24	22	
<i>Chloride (Cl)</i> ppm			6	7	6	6	
<i>Bicarbonate (HCO3)</i> ppm			24	21	22	23	
<b>ANIONS</b>	<b>SULFUR</b>	ppm	0.51	0.98	0.68	0.57	
	<b>PHOSPHORUS</b>	ppm	0.32	0.38	0.39	0.39	
<b>SOLUBLE CATIONS</b>	<b>CALCIUM</b>	ppm	3.65	3.89	3.30	3.19	
		meq/l	0.18	0.19	0.17	0.16	
	<b>MAGNESIUM</b>	ppm	0.88	0.92	0.76	0.69	
		meq/l	0.07	0.08	0.06	0.06	
	<b>POTASSIUM:</b>	ppm	1.79	2.08	2.13	1.88	
		meq/l	0.05	0.05	0.06	0.05	
	<b>SODIUM</b>	ppm	1.64	3.10	1.85	1.57	
		meq/l	0.07	0.13	0.08	0.07	
<b>PERCENT</b>	Calcium		48.81	42.29	45.26	47.78	
	Magnesium		19.63	16.67	17.48	17.14	
	Potassium		12.46	11.77	15.17	14.65	
	Sodium		19.11	29.27	22.09	20.43	
<b>TRACE ELEMENTS</b>	Boron (p.p.m.)		0.04	0.04	0.03	0.03	
	Iron (p.p.m.)		0.72	0.66	0.8	0.72	
	Manganese (p.p.m.)		0.07	0.06	0.06	0.04	
	Copper (p.p.m.)		0.02	0.02	0.02	0.02	
	Zinc (p.p.m.)		0.02	0.02	0.02	0.02	
	Aluminum (p.p.m.)		0.39	0.31	0.36	0.34	
<b>OTHER</b>							