

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZIndependent Consultant Soil and Water Consulting Date 03/13/2018

Sample Location <u>TEE</u>		9	18			
Sample Identification						
Lab Number		0238-1	0239-1			
Total Exchange Capacity (ME/100 g)		11.64	15.55			
pH (H ₂ O 1:1)		a 7.5	a 7.9			
Organic Matter (360°C LOI) %		2.92	3.22			
Estimated Nitrogen Release lb/A		78	82			
ANIONS	SOLUBLE SULFUR* ppm	23	24			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P					
	BRAY II lb/A P as P ₂ O ₅ ppm of P					
	OLSEN lb/A P as P ₂ O ₅ ppm of P	46 10	55 12			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	3888 1944	5148 2574			
	MAGNESIUM* lb/A ppm	182 91	272 136			
	POTASSIUM* lb/A ppm	288 144	402 201			
	SODIUM* lb/A ppm	154 77	226 113			
BASE SATURATION PERCENT						
Calcium %		83.51	82.77			
Magnesium %		6.51	7.29			
Potassium %		3.17	3.31			
Sodium %		2.88	3.16			
Other Bases %		3.90	3.50			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.91	1.09			
Iron** (ppm)		110	96			
Manganese** (ppm)		39	61			
Copper** (ppm)		2.92	4.41			
Zinc** (ppm)		17.35	9.68			
Aluminum** (ppm)		103	69			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	7.9	7.5			
	NH ₄ -N (ppm)	5.0	5.4			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

BROOKSIDE LABORATORIES, INC.

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Independent Consultant Soil and Water Consulting Date 03/13/2018

Sample Location <u>FAIRWAY</u>		9	18			
Sample Identification						
Lab Number		0240-1	0241-1			
Total Exchange Capacity (ME/100 g)		12.20	12.18			
pH (H ₂ O 1:1)		a 7.5	a 7.5			
Organic Matter (360°C LOI) %		3.67	3.55			
Estimated Nitrogen Release lb/A		87	86			
ANIONS	SOLUBLE SULFUR* ppm	23	33			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P					
	BRAY II lb/A P as P ₂ O ₅ ppm of P					
	OLSEN lb/A P as P ₂ O ₅ ppm of P	142 31	124 27			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	3802 1901	3596 1798			
	MAGNESIUM* lb/A ppm	256 128	266 133			
	POTASSIUM* lb/A ppm	502 251	610 305			
	SODIUM* lb/A ppm	236 118	378 189			
BASE SATURATION PERCENT						
Calcium %		77.91	73.81			
Magnesium %		8.74	9.10			
Potassium %		5.28	6.42			
Sodium %		4.21	6.75			
Other Bases %		3.90	3.90			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		1.21	1.18			
Iron** (ppm)		118	291			
Manganese** (ppm)		46	36			
Copper** (ppm)		4.13	4.64			
Zinc** (ppm)		10.35	13.56			
Aluminum** (ppm)		83	109			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.7	8.0			
	NH ₄ -N (ppm)	5.2	5.7			

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Sample Location <u>GREEN</u>		9	18			
Sample Identification						
Lab Number		0242-1	0243-1			
Total Exchange Capacity (ME/100 g)		7.22	7.22			
pH (H ₂ O 1:1)		a 8.1	a 8.3			
Organic Matter (360°C LOI) %		0.91	0.90			
Estimated Nitrogen Release lb/A		36	36			
ANIONS	SOLUBLE SULFUR* ppm	4	4			
	PHOSPHORUS MEHLICH III lb/A P as P ₂ O ₅ ppm of P					
	BRAY II lb/A P as P ₂ O ₅ ppm of P					
	OLSEN lb/A P as P ₂ O ₅ ppm of P	73 16	96 21			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2116 1058	2094 1047			
	MAGNESIUM* lb/A ppm	184 92	174 87			
	POTASSIUM* lb/A ppm	494 247	610 305			
	SODIUM* lb/A ppm	132 66	118 59			
BASE SATURATION PERCENT						
Calcium %		73.27	72.51			
Magnesium %		10.62	10.04			
Potassium %		8.77	10.83			
Sodium %		3.97	3.55			
Other Bases %		3.30	3.10			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.36	8.80			
Iron** (ppm)		90	92			
Manganese** (ppm)		59	62			
Copper** (ppm)		3.18	4.74			
Zinc** (ppm)		11.12	13.45			
Aluminum** (ppm)		306	322			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	0.7	2.0			
	NH ₄ -N (ppm)	2.6	22.3			

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