

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Tucson Country Club City Tucson State AZ

Independent Consultant Soil and Water Consulting Date 6/11/2018

Sample Location TEE			3	12			
Sample Identification							
Lab Number			0001-1	0002-1			
Total Exchange Capacity (ME/100 g)			8.83	10.94			
pH (H ₂ O 1:1)			a 8.3	a 8.3			
Organic Matter (360°C LOI) %			2.35	2.85			
Estimated Nitrogen Release lb/A			67	77			
ANIONS	SOLUBLE SULFUR* ppm		12	21			
	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						
EXCHANGEABLE CATIONS	OLSEN lb/A P as P ₂ O ₅ ppm of P		37 8	78 17			
	CALCIUM* lb/A ppm		2846 1423	3416 1708			
	MAGNESIUM* lb/A ppm		174 87	214 107			
	POTASSIUM* lb/A ppm		236 118	370 185			
	SODIUM* lb/A ppm		192 96	320 160			
BASE SATURATION PERCENT							
	Calcium %		80.58	78.06			
	Magnesium %		8.21	8.15			
	Potassium %		3.43	4.34			
	Sodium %		4.73	6.36			
	Other Bases %		3.10	3.10			
	Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		0.82	1.13			
	Iron** (ppm)		135	109			
	Manganese** (ppm)		37	41			
	Copper** (ppm)		1.65	2.63			
	Zinc** (ppm)		7.88	13.30			
	Aluminum** (ppm)		109	101			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		16.9	8.8			
	NH ₄ -N (ppm)		3.7	4.2			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>FAIRWAY</u>		3				
Sample Identification						
Lab Number		0003-1				
Total Exchange Capacity (ME/100 g)		11.42				
pH (H ₂ O 1:1)		a 7.8				
Organic Matter (360°C LOI) %		3.90				
Estimated Nitrogen Release lb/A		89				
ANIONS	SOLUBLE SULFUR* ppm	44				
	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	137 30				
EXCHANGEABLE CATIONS	CALCIUM* lb/A	3260				
		ppm	1630			
	MAGNESIUM* lb/A	292				
		ppm	146			
	POTASSIUM* lb/A	598				
	ppm	299				
	SODIUM* lb/A	402				
	ppm	201				
BASE SATURATION PERCENT						
	Calcium %	71.37				
	Magnesium %	10.65				
	Potassium %	6.71				
	Sodium %	7.65				
	Other Bases %	3.60				
	Hydrogen %	0.00				
EXTRACTABLE MINORS						
	Boron** (ppm)	1.12				
	Iron** (ppm)	184				
	Manganese** (ppm)	30				
	Copper** (ppm)	3.53				
	Zinc** (ppm)	15.90				
	Aluminum** (ppm)	117				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	17.4				
	NH ₄ -N (ppm)	4.7				

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Sample Location <u>GREEN</u>		3	12			
Sample Identification						
Lab Number		0004-1	0005-1			
Total Exchange Capacity (ME/100 g)		6.75	6.50			
pH (H ₂ O 1:1)		a 8.4	a 8.7			
Organic Matter (360°C LOI) %		0.96	0.74			
Estimated Nitrogen Release lb/A		38	30			
ANIONS	SOLUBLE SULFUR* ppm	29	8			
	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	69 15	50 11			
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1802	1762			
	ppm	901	881			
	MAGNESIUM* lb/A	168	162			
	ppm	84	81			
	POTASSIUM* lb/A	664	674			
	ppm	332	337			
	SODIUM* lb/A	226	174			
	ppm	113	87			
BASE SATURATION PERCENT						
Calcium %		66.74	67.77			
Magnesium %		10.37	10.38			
Potassium %		12.61	13.29			
Sodium %		7.28	5.82			
Other Bases %		3.00	2.70			
Hydrogen %		0.00	0.00			
EXTRACTABLE MINORS						
Boron** (ppm)		0.66	0.58			
Iron** (ppm)		93	66			
Manganese** (ppm)		69	44			
Copper** (ppm)		3.74	0.78			
Zinc** (ppm)		13.26	4.49			
Aluminum** (ppm)		240	150			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.9	2.2			
	NH ₄ -N (ppm)	11.1	4.9			

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Sample Location <u>GREEN</u>		NEW				
Sample Identification		PG				
Lab Number		0006-1				
Total Exchange Capacity (ME/100 g)		5.80				
pH (H ₂ O 1:1)		a 8.7				
Organic Matter (360°C LOI) %		0.73				
Estimated Nitrogen Release lb/A		29				
ANIONS	SOLUBLE SULFUR* ppm	8				
	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	9 2				
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1828				
	ppm	914				
	MAGNESIUM* lb/A	122				
	ppm	61				
	POTASSIUM* lb/A	240				
	ppm	120				
	SODIUM* lb/A	118				
	ppm	59				
BASE SATURATION PERCENT						
Calcium %		78.79				
Magnesium %		8.76				
Potassium %		5.31				
Sodium %		4.42				
Other Bases %		2.70				
Hydrogen %		0.00				
EXTRACTABLE MINORS						
Boron** (ppm)		0.50				
Iron** (ppm)		71				
Manganese** (ppm)		26				
Copper** (ppm)		0.50				
Zinc** (ppm)		1.44				
Aluminum** (ppm)		62				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	1.0				
	NH ₄ -N (ppm)	3.6				

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