

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

56022-2

Name Iron Wolf Golf & Country Club City Lake Havasu City State AZIndependent Consultant Soil and Water Consulting Date 11/20/2012

Sample Location		FAIRWAY		11			
Sample Identification							
Lab Number				1595-1			
Total Exchange Capacity (ME/100 g)				11.85			
pH (H ₂ O 1:1)				a 9.1			
Organic Matter (360°C LOI) %				0.89			
Estimated Nitrogen Release lb/A				36			
ANIONS	SOLUBLE SULFUR* ppm			43			
	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		41 9			
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm			3602 1801			
	MAGNESIUM* lb/A ppm			326 163			
	POTASSIUM* lb/A ppm			266 133			
	SODIUM* lb/A ppm			400 200			
BASE SATURATION PERCENT							
Calcium %				75.99			
Magnesium %				11.46			
Potassium %				2.88			
Sodium %				7.34			
Other Bases %				2.30			
Hydrogen %				0.00			
EXTRACTABLE MINORS							
Boron M3 (ppm)							
Iron** (ppm)				6			
Manganese** (ppm)				< 1			
Copper** (ppm)				< 0.2			
Zinc** (ppm)				1.62			
Aluminum (ppm)							
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location	GREEN		11		
Sample Identification					
Lab Number			1596-1		
Total Exchange Capacity (ME/100 g)			9.54		
pH (H ₂ O 1:1)		a	8.6		
Organic Matter (360°C LOI) %			0.42		
Estimated Nitrogen Release	lb/A		17		
ANIONS	SOLUBLE SULFUR*	ppm		29	
	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	37 8	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm		2678 1339	
	MAGNESIUM*	lb/A ppm		338 169	
	POTASSIUM*	lb/A ppm		248 124	
	SODIUM*	lb/A ppm		392 196	
	BASE SATURATION PERCENT				
	Calcium	%		70.18	
	Magnesium	%		14.76	
	Potassium	%		3.33	
	Sodium	%		8.93	
	Other Bases	%		2.80	
	Hydrogen	%		0.00	
EXTRACTABLE MINORS					
	Boron M3 (ppm)				
	Iron** (ppm)		3		
	Manganese** (ppm)		< 1		
	Copper** (ppm)		< 0.2		
	Zinc** (ppm)		0.56		
	Aluminum (ppm)				
OTHER TESTS	Soluble Salts (mmhos/cm)				
	Chlorides (ppm)				

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Sample Location		TEE		11		
Sample Identification						
Lab Number				1597-1		
Total Exchange Capacity (ME/100 g)				12.61		
pH (H ₂ O 1:1)			a	9.2		
Organic Matter (360°C LOI) %				0.80		
Estimated Nitrogen Release lb/A				32		
ANIONS	SOLUBLE SULFUR* ppm			43		
	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		41	9	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A		3848		
		ppm		1924		
	MAGNESIUM*	lb/A		346		
		ppm		173		
	POTASSIUM*	lb/A		268		
		ppm		134		
	SODIUM*	lb/A		428		
		ppm		214		
BASE SATURATION PERCENT						
	Calcium	%		76.29		
	Magnesium	%		11.43		
	Potassium	%		2.72		
	Sodium	%		7.38		
	Other Bases	%		2.20		
	Hydrogen	%		0.00		
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)			12		
	Manganese** (ppm)			< 1		
	Copper** (ppm)			< 0.2		
	Zinc** (ppm)			9.26		
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

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