

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-6

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 9/19/2022

Sample Location		CENTENNIAL PARK	NORTH	SOUTH			
Sample Identification			SOCCER	SOCCER			
Lab Number			0430-1	0431-1			
Total Exchange Capacity (ME/100 g)			25.47	20.80			
pH (H ₂ O 1:1)			a 7.5	a 7.5			
Organic Matter (360°C LOI) %			3.96	5.07			
Estimated Nitrogen Release lb/A			90	100			
ANIONS	SOLUBLE SULFUR*	ppm	47	23			
	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	188 41	142 31			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	6132 3066	5176 2588			
	MAGNESIUM*	lb/A ppm	1688 844	1308 654			
	POTASSIUM*	lb/A ppm	1370 685	980 490			
	SODIUM*	lb/A ppm	166 83	156 78			
BASE SATURATION PERCENT							
	Calcium	%	60.19	62.21			
	Magnesium	%	27.61	26.20			
	Potassium	%	6.90	6.04			
	Sodium	%	1.42	1.63			
	Other Bases	%	3.90	3.90			
	Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		1.48	1.64			
	Iron** (ppm)		66	59			
	Manganese** (ppm)		98	74			
	Copper** (ppm)		2.39	1.87			
	Zinc** (ppm)		10.25	13.27			
	Aluminum** (ppm)		184	122			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		20.5	33.2			
	NH ₄ -N (ppm)		3.4	14.4			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Sample Location		SOUTH SIDE PARK	FOOTBALL				
Sample Identification							
Lab Number			0432-1				
Total Exchange Capacity (ME/100 g)			21.40				
pH (H ₂ O 1:1)			a 7.8				
Organic Matter (360°C LOI) %			4.86				
Estimated Nitrogen Release lb/A			99				
ANIONS	SOLUBLE SULFUR* ppm		30				
	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	298 65				
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		5760 2880				
	MAGNESIUM* lb/A ppm		1162 581				
	POTASSIUM* lb/A ppm		784 392				
	SODIUM* lb/A ppm		178 89				
BASE SATURATION PERCENT							
	Calcium %		67.29				
	Magnesium %		22.62				
	Potassium %		4.70				
	Sodium %		1.81				
	Other Bases %		3.60				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		1.96				
	Iron** (ppm)		68				
	Manganese** (ppm)		62				
	Copper** (ppm)		1.64				
	Zinc** (ppm)		9.89				
	Aluminum** (ppm)		78				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		31.3				
	NH ₄ -N (ppm)		< 0.5				

a - alkaline soil

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** Mehlich III Extractable