

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-8

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 9/20/2023

Sample Location		CENTENIAL PARK	NORTH	SOUTH			
Sample Identification			SOCCER	SOCCER			
Lab Number			0200-1	0201-1			
Total Exchange Capacity (ME/100 g)			17.46	16.95			
pH (H ₂ O 1:1)			a 7.8	a 7.6			
Organic Matter (360°C LOI) %			5.24	4.70			
Estimated Nitrogen Release lb/A			101	97			
ANIONS	SOLUBLE SULFUR*	ppm	19	30			
	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	101 22	101 22			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	3896 1948	4076 2038			
	MAGNESIUM*	lb/A ppm	1244 622	1086 543			
	POTASSIUM*	lb/A ppm	1158 579	962 481			
	SODIUM*	lb/A ppm	194 97	166 83			
BASE SATURATION PERCENT							
	Calcium	%	55.78	60.12			
	Magnesium	%	29.69	26.70			
	Potassium	%	8.50	7.28			
	Sodium	%	2.42	2.13			
	Other Bases	%	3.60	3.80			
	Hydrogen	%	0.00	0.00			
EXTRACTABLE MINORS							
	Boron** (ppm)		2.01	1.01			
	Iron** (ppm)		68	45			
	Manganese** (ppm)		54	46			
	Copper** (ppm)		2.30	1.76			
	Zinc** (ppm)		13.38	7.94			
	Aluminum** (ppm)		134	90			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		42.7	22.4			
	NH ₄ -N (ppm)		80.0	1.3			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-8

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 9/20/2023

Sample Location		SOUTH SIDE PARK	FOOTBALL				
Sample Identification							
Lab Number			0202-1				
Total Exchange Capacity (ME/100 g)			16.58				
pH (H ₂ O 1:1)			a 7.8				
Organic Matter (360°C LOI) %			4.85				
Estimated Nitrogen Release lb/A			98				
ANIONS	SOLUBLE SULFUR* ppm		18				
	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	325 71				
EXCHANGEABLE CATIONS	CALCIUM* lb/A		4226				
			2113				
	MAGNESIUM* lb/A		1022				
			511				
	POTASSIUM* lb/A		630				
		315					
SODIUM* lb/A		160					
		80					
BASE SATURATION PERCENT							
Calcium %		63.72					
Magnesium %		25.68					
Potassium %		4.87					
Sodium %		2.10					
Other Bases %		3.60					
Hydrogen %		0.00					
EXTRACTABLE MINORS							
Boron** (ppm)		1.40					
Iron** (ppm)		53					
Manganese** (ppm)		45					
Copper** (ppm)		1.71					
Zinc** (ppm)		9.78					
Aluminum** (ppm)		44					
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		38.0				
	NH ₄ -N (ppm)		30.0				

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable