

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-5

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 3/24/2022

Sample Location		CENTENIAL PARK	NORTH	SOUTH			
Sample Identification			SOCCER	SOCCER			
Lab Number			0720-1	0721-1			
Total Exchange Capacity (ME/100 g)			19.89	19.65			
pH (H ₂ O 1:1)			a 7.7	a 7.7			
Organic Matter (360°C LOI) %			4.46	6.24			
Estimated Nitrogen Release lb/A			95	106			
ANIONS	SOLUBLE SULFUR*	ppm	14	15			
	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	110 24	224 49			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4500 2250	4094 2047			
	MAGNESIUM*	lb/A ppm	1436 718	1590 795			
	POTASSIUM*	lb/A ppm	1150 575	1180 590			
	SODIUM*	lb/A ppm	206 103	254 127			
BASE SATURATION PERCENT							
Calcium %			56.56	52.09			
Magnesium %			30.08	33.72			
Potassium %			7.41	7.70			
Sodium %			2.25	2.81			
Other Bases %			3.70	3.70			
Hydrogen %			0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.38	2.23			
Iron** (ppm)			48	82			
Manganese** (ppm)			92	54			
Copper** (ppm)			1.85	2.51			
Zinc** (ppm)			6.31	13.37			
Aluminum** (ppm)			172	144			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		21.3	12.7			
	NH ₄ -N (ppm)		9.9	4.1			

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		0722-1				
Total Exchange Capacity (ME/100 g)		19.47				
pH (H ₂ O 1:1)		a 8.1				
Organic Matter (360°C LOI) %		5.16				
Estimated Nitrogen Release lb/A		101				
ANIONS	SOLUBLE SULFUR*	ppm	25			
	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	307 67			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4802 2401			
	MAGNESIUM*	lb/A ppm	1270 635			
	POTASSIUM*	lb/A ppm	846 423			
	SODIUM*	lb/A ppm	204 102			
BASE SATURATION PERCENT						
	Calcium	%	61.66			
	Magnesium	%	27.18			
	Potassium	%	5.57			
	Sodium	%	2.28			
	Other Bases	%	3.30			
	Hydrogen	%	0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		2.05			
	Iron** (ppm)		50			
	Manganese** (ppm)		48			
	Copper** (ppm)		1.59			
	Zinc** (ppm)		9.04			
	Aluminum** (ppm)		69			
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		12.0			
	NH ₄ -N (ppm)		4.5			

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** Mehlich III Extractable