

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

82218-7

Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 3/21/2023

Sample Location		CENTENNIAL PARK	NORTH	SOUTH			
Sample Identification			SOCCER	SOCCER			
Lab Number			0184-1	0185-1			
Total Exchange Capacity (ME/100 g)			17.88	19.41			
pH (H ₂ O 1:1)			a 7.6	a 7.6			
Organic Matter (360°C LOI) %			5.51	5.87			
Estimated Nitrogen Release lb/A			103	104			
ANIONS	SOLUBLE SULFUR*	ppm	7	9			
	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	151 33	202 44			
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	4336 2168	4548 2274			
	MAGNESIUM*	lb/A ppm	1234 617	1394 697			
	POTASSIUM*	lb/A ppm	792 396	954 477			
	SODIUM*	lb/A ppm	94 47	124 62			
BASE SATURATION PERCENT							
Calcium		%	60.63	58.58			
Magnesium		%	28.76	29.92			
Potassium		%	5.68	6.30			
Sodium		%	1.14	1.39			
Other Bases		%	3.80	3.80			
Hydrogen		%	0.00	0.00			
EXTRACTABLE MINORS							
Boron** (ppm)			1.82	1.89			
Iron** (ppm)			68	86			
Manganese** (ppm)			50	49			
Copper** (ppm)			2.01	3.18			
Zinc** (ppm)			12.87	14.50			
Aluminum** (ppm)			111	152			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		8.8	7.4			
	NH ₄ -N (ppm)		6.2	4.1			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

lb/A

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Name City of Kingman-Parks City _____ State _____Independent Consultant Soil and Water Consulting Date 3/21/2023

Sample Location		SOUTH SIDE PARK	FOOTBALL				
Sample Identification							
Lab Number			0186-1				
Total Exchange Capacity (ME/100 g)			21.02				
pH (H ₂ O 1:1)			a 8.0				
Organic Matter (360°C LOI) %			5.47				
Estimated Nitrogen Release lb/A			102				
ANIONS	SOLUBLE SULFUR*	ppm	13				
	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	389 85				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	5348 2674				
	MAGNESIUM*	lb/A ppm	1352 676				
	POTASSIUM*	lb/A ppm	806 403				
	SODIUM*	lb/A ppm	124 62				
	BASE SATURATION PERCENT						
	Calcium %		63.61				
	Magnesium %		26.80				
	Potassium %		4.92				
	Sodium %		1.28				
	Other Bases %		3.40				
	Hydrogen %		0.00				
EXTRACTABLE MINORS							
	Boron** (ppm)		2.98				
	Iron** (ppm)		68				
	Manganese** (ppm)		52				
	Copper** (ppm)		3.44				
	Zinc** (ppm)		18.50				
	Aluminum** (ppm)		54				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.0				
	NH ₄ -N (ppm)		3.4				

a - alkaline soil

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** Mehlich III Extractable