

lb/A

BROOKSIDE LABORATORIES, INC. 89490-6

SOIL AUDIT AND INVENTORY REPORT

Name Quail Creek Golf Club City Green Valley State AZ

Independent Consultant Soil and Water Consulting Date 09/25/2025

Sample Location	COYOTE	FAIRWAY				
Sample Identification		1				
Lab Number		0121-1				
Total Exchange Capacity (ME / 100 g)		22.31				
pH (H ₂ O 1:1)		8.3				
Organic Matter (360°C LOI) %		4.23				
Estimated Nitrogen Release lb / A		92				
ANIONS	SOLUBLE SULFUR*	ppm	329			
	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					
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P	184				
	CALCIUM*	lb / A ppm	61423071			
	MAGNESIUM*	lb / A ppm	244122			
	POTASSIUM*	lb / A ppm	672336			
	SODIUM*	lb / A ppm	20161008			
BASE SATURATION PERCENT						
	Calcium %		68.83			
	Magnesium %		4.56			
	Potassium %		3.86			
	Sodium %		19.64			
	Other Bases %		3.10			
	Hydrogen %		0.00			
EXTRACTABLE MINORS						
	Boron** (ppm)		2.31			
	Iron** (ppm)		81			
	Manganese** (ppm)		71			
	Copper** (ppm)		2.76			
	Zinc** (ppm)		9.35			
	Aluminum** (ppm)		64			
OTHER TESTS	Soluble Salts (mmhos / cm)					
	Chlorides (ppm)		46.99			
	NO ₃ -N (ppm)		27.6			
	NH ₄ -N (ppm)		10.1			

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		COYOTE	GREEN				
Sample Identification			1				
Lab Number			0122-1				
Total Exchange Capacity (ME / 100 g)			6.58				
pH (H ₂ O 1:1)			8.1				
Organic Matter (360°C LOI) %			0.80				
Estimated Nitrogen Release lb / A			32				
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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		32				
			7				
	CALCIUM*	lb / A ppm	1866				
			933				
	MAGNESIUM*	lb / A ppm	76				
			38				
	POTASSIUM*	lb / A ppm	598				
			299				
	SODIUM*	lb / A ppm	282				
			141				
BASE SATURATION PERCENT							
Calcium %			70.90				
Magnesium %			4.81				
Potassium %			11.65				
Sodium %			9.32				
Other Bases %			3.30				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.42				
Iron** (ppm)			53				
Manganese** (ppm)			14				
Copper** (ppm)			0.38				
Zinc** (ppm)			3.14				
Aluminum** (ppm)			147				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)		15.08				
	NO ₃ -N (ppm)		8.0				
	NH ₄ -N (ppm)		2.3				

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Sample Location		COYOTE	TEE				
Sample Identification			1				
Lab Number			0123-1				
Total Exchange Capacity (ME / 100 g)			12.69				
pH (H ₂ O 1:1)			7.8				
Organic Matter (360°C LOI) %			1.10				
Estimated Nitrogen Release lb / A			42				
ANIONS	SOLUBLE SULFUR*	ppm	27				
	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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		69				
			15				
	CALCIUM*	lb / A ppm	4032				
			2016				
	MAGNESIUM*	lb / A ppm	140				
			70				
	POTASSIUM*	lb / A ppm	458				
			229				
	SODIUM*	lb / A ppm	450				
			225				
BASE SATURATION PERCENT							
Calcium %			79.43				
Magnesium %			4.60				
Potassium %			4.63				
Sodium %			7.71				
Other Bases %			3.60				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.77				
Iron** (ppm)			43				
Manganese** (ppm)			51				
Copper** (ppm)			0.83				
Zinc** (ppm)			1.86				
Aluminum** (ppm)			61				
OTHER TESTS	Soluble Salts (mmhos / cm)						
	Chlorides (ppm)		15.58				
	NO ₃ -N (ppm)		58.0				
	NH ₄ -N (ppm)		15.9				

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SOIL AUDIT AND INVENTORY REPORT

Name Quail Creek Golf Club City Green Valley State AZ

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Sample Location			QUAIL	FAIRWAY					
Sample Identification				1					
Lab Number				0124 - 1					
Total Exchange Capacity (ME / 100 g)				21 . 46					
pH (H ₂ O 1:1)				8 . 0					
Organic Matter (360°C LOI) %				4 . 48					
Estimated Nitrogen Release lb / A				95					
ANIONS	SOLUBLE SULFUR* ppm			375					
	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	82 18					
EXCHANGABLE CATIONS	CALCIUM* lb/A		ppm	5940 2970	— — —	— — —	— — —	— — —	— — —
	MAGNESIUM* lb/A		ppm	192 96	— — —	— — —	— — —	— — —	— — —
	POTASSIUM* lb/A		ppm	806 403	— — —	— — —	— — —	— — —	— — —
	SODIUM* lb/A		ppm	1862 931	— — —	— — —	— — —	— — —	— — —
BASE SATURATION PERCENT									
Calcium %				69 . 20					
Magnesium %				3 . 73					
Potassium %				4 . 82					
Sodium %				18 . 86					
Other Bases %				3 . 40					
Hydrogen %				0 . 00					
EXTRACTABLE MINORS									
Boron** (ppm)				2 . 57					
Iron** (ppm)				118					
Manganese** (ppm)				48					
Copper** (ppm)				2 . 53					
Zinc** (ppm)				13 . 70					
Aluminum** (ppm)				104					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)			56 . 63					
	NO3-N (ppm)			76 . 3					
	NH4-N (ppm)			124 . 7					

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Sample Location		QUAIL	GREEN				
Sample Identification			1				
Lab Number			0125-1				
Total Exchange Capacity (ME / 100 g)			6.10				
pH (H ₂ O 1:1)			7.7				
Organic Matter (360°C LOI) %			0.73				
Estimated Nitrogen Release lb / A			29				
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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		184				
	CALCIUM*	lb / A ppm	1690845				
	MAGNESIUM*	lb / A ppm	7638				
	POTASSIUM*	lb / A ppm	548274				
	SODIUM*	lb / A ppm	292146				
BASE SATURATION PERCENT							
Calcium %			69.26				
Magnesium %			5.19				
Potassium %			11.52				
Sodium %			10.41				
Other Bases %			3.70				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.30				
Iron** (ppm)			50				
Manganese** (ppm)			13				
Copper** (ppm)			0.25				
Zinc** (ppm)			1.93				
Aluminum** (ppm)			126				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)		30.36				
	NO ₃ -N (ppm)		30.9				
	NH ₄ -N (ppm)		68.5				

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Sample Location			QUAIL	TEE				
Sample Identification				1				
Lab Number				0126 - 1				
Total Exchange Capacity (ME / 100 g)				12 . 18				
pH (H ₂ O 1:1)				8 . 6				
Organic Matter (360°C LOI) %				1 . 32				
Estimated Nitrogen Release lb / A				46				
ANIONS	SOLUBLE SULFUR* ppm			60				
	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	23 5				
EXCHANGABLE CATIONS	CALCIUM* lb/A		ppm	3810 1905	— — —	— — —	— — —	— — —
	MAGNESIUM* lb/A		ppm	140 70	— — —	— — —	— — —	— — —
	POTASSIUM* lb/A		ppm	324 162	— — —	— — —	— — —	— — —
	SODIUM* lb/A		ppm	606 303	— — —	— — —	— — —	— — —
BASE SATURATION PERCENT								
Calcium %				78 . 20				
Magnesium %				4 . 79				
Potassium %				3 . 41				
Sodium %				10 . 82				
Other Bases %				2 . 80				
Hydrogen %				0 . 00				
EXTRACTABLE MINORS								
Boron** (ppm)				0 . 83				
Iron** (ppm)				58				
Manganese** (ppm)				54				
Copper** (ppm)				1 . 15				
Zinc** (ppm)				2 . 38				
Aluminum** (ppm)				67				
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)			22 . 76				
	NO3-N (ppm)			9 . 8				
	NH4-N (ppm)			103 . 2				

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Sample Location			ROADRUNNER	FAIRWAY					
Sample Identification				1					
Lab Number				0127-1					
Total Exchange Capacity (ME / 100 g)				18.87					
pH (H ₂ O 1:1)				8.1					
Organic Matter (360°C LOI) %				2.58					
Estimated Nitrogen Release lb / A				72					
ANIONS	SOLUBLE SULFUR* ppm			123					
	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	50 11					
EXCHANGABLE CATIONS	CALCIUM* lb/A		ppm	5868 2934					
	MAGNESIUM* lb/A		ppm	164 82					
	POTASSIUM* lb/A		ppm	576 288					
	SODIUM* lb/A		ppm	990 495					
BASE SATURATION PERCENT									
Calcium %				77.74					
Magnesium %				3.62					
Potassium %				3.91					
Sodium %				11.41					
Other Bases %				3.30					
Hydrogen %				0.00					
EXTRACTABLE MINORS									
Boron** (ppm)				1.17					
Iron** (ppm)				14					
Manganese** (ppm)				11					
Copper** (ppm)				1.16					
Zinc** (ppm)				2.68					
Aluminum** (ppm)				4					
OTHER TESTS	Soluble Salts (mmhos/cm)								
	Chlorides (ppm)			38.20					
	NO3-N (ppm)			91.0					
	NH4-N (ppm)			178.4					

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Sample Location		ROADRUNNER	GREEN				
Sample Identification			1				
Lab Number			0128-1				
Total Exchange Capacity (ME / 100 g)			7.79				
pH (H ₂ O 1:1)			7.8				
Organic Matter (360°C LOI) %			2.12				
Estimated Nitrogen Release lb / A			62				
ANIONS	SOLUBLE SULFUR*	ppm	27				
	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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		27				
			6				
	CALCIUM*	lb / A ppm	2450				
			1225				
	MAGNESIUM*	lb / A ppm	62				
			31				
	POTASSIUM*	lb / A ppm	374				
			187				
	SODIUM*	lb / A ppm	296				
			148				
BASE SATURATION PERCENT							
Calcium %			78.63				
Magnesium %			3.32				
Potassium %			6.16				
Sodium %			8.26				
Other Bases %			3.60				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.83				
Iron** (ppm)			113				
Manganese** (ppm)			27				
Copper** (ppm)			3.30				
Zinc** (ppm)			6.78				
Aluminum** (ppm)			45				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)		11.31				
	NO ₃ -N (ppm)		90.4				
	NH ₄ -N (ppm)		98.1				

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Sample Location		ROADRUNNER	TEE				
Sample Identification			1				
Lab Number			0129-1				
Total Exchange Capacity (ME / 100 g)			11.33				
pH (H ₂ O 1:1)			8.0				
Organic Matter (360°C LOI) %			1.86				
Estimated Nitrogen Release lb / A			57				
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						
EXCHANGABLE CATIONS	OLSEN lb / A P as P ₂ O ₅ ppm of P		92				
	CALCIUM*	lb / A ppm	3518				
			1759				
	MAGNESIUM*	lb / A ppm	108				
			54				
	POTASSIUM*	lb / A ppm	372				
			186				
	SODIUM*	lb / A ppm	564				
			282				
BASE SATURATION PERCENT							
Calcium %			77.63				
Magnesium %			3.97				
Potassium %			4.21				
Sodium %			10.82				
Other Bases %			3.40				
Hydrogen %			0.00				
EXTRACTABLE MINORS							
Boron** (ppm)			0.80				
Iron** (ppm)			48				
Manganese** (ppm)			41				
Copper** (ppm)			0.88				
Zinc** (ppm)			3.76				
Aluminum** (ppm)			71				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)		22.57				
	NO ₃ -N (ppm)		12.1				
	NH ₄ -N (ppm)		3.5				

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