

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

73606-32

Name Seven Oaks CC City Bakersfield State CA

Independent Consultant Soil and Water Consulting Date 6/16/2023

Sample Location		TEES	LAKES	OAKS	ISLANDS		
Sample Identification			7	7	7		
Lab Number			0522-1	0523-1	0524-1		
Total Exchange Capacity (ME/100 g)			9.13	7.25	7.53		
pH (H ₂ O 1:1)			6.8	7.0	7.3		
Organic Matter (360°C LOI) %			2.66	2.78	2.22		
Estimated Nitrogen Release lb/A			73	76	64		
ANIONS	SOLUBLE SULFUR*	ppm	29	13	11		
	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					
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅ ppm of P	< 5 < 1	< 5 < 1	64 14		
	CALCIUM*	lb/A ppm	2722 1361	2316 1158	2482 1241		
	MAGNESIUM*	lb/A ppm	242 121	172 86	148 74		
	POTASSIUM*	lb/A ppm	304 152	204 102	186 93		
	SODIUM*	lb/A ppm	108 54	76 38	72 36		
BASE SATURATION PERCENT							
	Calcium	%	74.53	79.86	82.40		
	Magnesium	%	11.04	9.89	8.19		
	Potassium	%	4.27	3.61	3.17		
	Sodium	%	2.57	2.28	2.08		
	Other Bases	%	4.60	4.40	4.10		
	Hydrogen	%	3.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron M3 (ppm)						
	Iron** (ppm)		29	28	40		
	Manganese** (ppm)		2	2	2		
	Copper** (ppm)		0.65	0.37	0.51		
	Zinc** (ppm)		1.53	3.35	4.12		
	Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.2	10.0	6.0		
	NH ₄ -N (ppm)		1.7	2.2	1.7		

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location	FAIRWAYS	LAKES	OAKS	ISLANDS		
Sample Identification		7	7	7		
Lab Number		0525-1	0526-1	0527-1		
Total Exchange Capacity (ME/100 g)		9.45	7.96	9.36		
pH (H ₂ O 1:1)		6.6	6.3	6.5		
Organic Matter (360°C LOI) %		3.23	2.91	3.45		
Estimated Nitrogen Release lb/A		82	78	84		
ANIONS	SOLUBLE SULFUR*	ppm	19	36	27	
	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	105 23	55 12	18 4	
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	2642 1321	2118 1059	2676 1338	
	MAGNESIUM*	lb/A ppm	226 113	188 94	202 101	
	POTASSIUM*	lb/A ppm	488 244	352 176	274 137	
	SODIUM*	lb/A ppm	118 59	88 44	144 72	
BASE SATURATION PERCENT						
	Calcium	%	69.89	66.52	71.47	
	Magnesium	%	9.96	9.84	8.99	
	Potassium	%	6.62	5.67	3.75	
	Sodium	%	2.71	2.40	3.34	
	Other Bases	%	4.80	5.10	4.90	
	Hydrogen	%	6.00	10.50	7.50	
EXTRACTABLE MINORS						
	Boron M3 (ppm)					
	Iron** (ppm)		111	83	77	
	Manganese** (ppm)		1	2	2	
	Copper** (ppm)		0.69	0.47	0.66	
	Zinc** (ppm)		5.87	3.62	2.31	
	Aluminum (ppm)					
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)		11.4	8.0	6.6	
	NH ₄ -N (ppm)		5.2	4.9	7.2	

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Independent Consultant Soil and Water Consulting Date 6/16/2023

Sample Location <u>GREENS</u>		LAKES	OAKS	ISLANDS		
Sample Identification		7	7	7		
Lab Number		0528-1	0529-1	0530-1		
Total Exchange Capacity (ME/100 g)		3.10	5.11	6.88		
pH (H ₂ O 1:1)		a 8.0	a 7.9	a 7.8		
Organic Matter (360°C LOI) %		0.60	0.90	0.89		
Estimated Nitrogen Release lb/A		24	36	36		
ANIONS	SOLUBLE SULFUR* ppm	16	19	19		
	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	32 7	119 26	5 1		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	772	1598	2218		
	ppm	386	799	1109		
	MAGNESIUM* lb/A	152	98	86		
	ppm	76	49	43		
	POTASSIUM* lb/A	238	304	394		
	ppm	119	152	197		
	SODIUM* lb/A	60	62	104		
	ppm	30	31	52		
BASE SATURATION PERCENT						
Calcium %		62.26	78.18	80.60		
Magnesium %		20.43	7.99	5.21		
Potassium %		9.84	7.63	7.34		
Sodium %		4.21	2.64	3.29		
Other Bases %		3.40	3.50	3.60		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		8	9	12		
Manganese** (ppm)		3	1	2		
Copper** (ppm)		0.86	1.16	1.02		
Zinc** (ppm)		3.16	4.24	2.35		
Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	< 0.5	< 0.5	< 0.5		
	NH ₄ -N (ppm)	0.6	1.4	< 0.5		

a - alkaline soil

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** DTPA Extractable