

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

93033-1

Name La Valle Coastal Club City Rancho Santa Fe State CAIndependent Consultant Soil and Water Consulting Date 10/29/2024

Sample Location		TEES	NORTH	SOUTH	EAST		
Sample Identification			TEE 6	TEE 1	TEE 6		
Lab Number			1162-1	1163-1	1164-1		
Total Exchange Capacity (ME/100 g)			38.89	10.89	17.86		
pH (H ₂ O 1:1)			a 7.6	a 8.4	a 7.7		
Organic Matter (360°C LOI) %			3.39	0.50	3.46		
Estimated Nitrogen Release lb/A			84	20	85		
ANIONS	SOLUBLE SULFUR*	ppm	2973	140	267		
	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	284 62	82 18	179 39		
EXCHANGEABLE CATIONS	CALCIUM*	lb/A ppm	11128 5564	3138 1569	3602 1801		
	MAGNESIUM*	lb/A ppm	1206 603	382 191	1082 541		
	POTASSIUM*	lb/A ppm	488 244	186 93	218 109		
	SODIUM*	lb/A ppm	1814 907	410 205	1568 784		
BASE SATURATION PERCENT							
	Calcium	%	71.54	72.04	50.42		
	Magnesium	%	12.92	14.62	25.24		
	Potassium	%	1.61	2.19	1.56		
	Sodium	%	10.14	8.18	19.09		
	Other Bases	%	3.80	3.00	3.70		
	Hydrogen	%	0.00	0.00	0.00		
EXTRACTABLE MINORS							
	Boron** (ppm)		2.29	0.73	2.55		
	Iron** (ppm)		281	90	180		
	Manganese** (ppm)		98	51	111		
	Copper** (ppm)		3.13	0.94	2.68		
	Zinc** (ppm)		9.45	3.86	15.01		
	Aluminum** (ppm)		226	82	180		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		7.1	< 0.5	12.0		
	NH ₄ -N (ppm)		2.0	0.5	2.3		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location		FAIRWAYS	NORTH	SOUTH	EAST		
Sample Identification			FWY 6	FWY 1	FWY 6		
Lab Number			1165-1	1166-1	1167-1		
Total Exchange Capacity (ME/100 g)			40.17	19.09	19.86		
pH (H ₂ O 1:1)			a 7.9	a 7.8	a 7.7		
Organic Matter (360°C LOI) %			5.51	3.72	4.52		
Estimated Nitrogen Release lb/A			103	87	95		
ANIONS	SOLUBLE SULFUR* ppm		2616	373	215		
	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	252 55	234 51	202 44		
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		10598 5299	4134 2067	4180 2090		
	MAGNESIUM* lb/A ppm		1552 776	1072 536	1244 622		
	POTASSIUM* lb/A ppm		790 395	528 264	306 153		
	SODIUM* lb/A ppm		2204 1102	1346 673	1424 712		
	BASE SATURATION PERCENT						
	Calcium %		65.96	54.14	52.62		
	Magnesium %		16.10	23.40	26.10		
	Potassium %		2.52	3.55	1.98		
	Sodium %		11.93	15.33	15.59		
	Other Bases %		3.50	3.60	3.70		
	Hydrogen %		0.00	0.00	0.00		
	EXTRACTABLE MINORS						
	Boron** (ppm)		3.30	2.72	3.24		
	Iron** (ppm)		229	284	171		
	Manganese** (ppm)		97	84	114		
	Copper** (ppm)		3.17	2.04	2.03		
	Zinc** (ppm)		9.22	8.39	7.94		
	Aluminum** (ppm)		129	146	159		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		10.1	4.7	9.9		
	NH ₄ -N (ppm)		2.0	2.5	1.4		

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Sample Location <u>GREENS</u>		NORTH	SOUTH	EAST		
Sample Identification		GRN 6	GRN 1	GRN 6		
Lab Number		1168-1	1169-1	1170-1		
Total Exchange Capacity (ME/100 g)		4.65	5.90	6.94		
pH (H ₂ O 1:1)		a 7.8	a 7.8	a 7.7		
Organic Matter (360°C LOI) %		0.91	1.38	1.11		
Estimated Nitrogen Release lb/A		36	48	42		
ANIONS	SOLUBLE SULFUR* ppm	27	38	64		
	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	115 25	147 32	105 23		
EXCHANGEABLE CATIONS	CALCIUM* lb/A	1256	1612	1644		
	ppm	628	806	822		
	MAGNESIUM* lb/A	224	272	376		
	ppm	112	136	188		
	POTASSIUM* lb/A	70	88	150		
	ppm	35	44	75		
	SODIUM* lb/A	148	190	374		
	ppm	74	95	187		
BASE SATURATION PERCENT						
Calcium %		67.53	68.31	59.22		
Magnesium %		20.07	19.21	22.57		
Potassium %		1.93	1.91	2.77		
Sodium %		6.92	7.00	11.72		
Other Bases %		3.60	3.60	3.70		
Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS						
Boron** (ppm)		0.90	1.00	1.01		
Iron** (ppm)		253	213	211		
Manganese** (ppm)		71	53	103		
Copper** (ppm)		1.73	1.56	1.84		
Zinc** (ppm)		14.98	12.32	14.70		
Aluminum** (ppm)		97	68	74		
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	3.6	3.6	4.0		
	NH ₄ -N (ppm)	< 0.5	0.6	0.6		

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