

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

93033-4

Name La Valle Coastal Club City Rancho Santa Fe State CAIndependent Consultant Soil and Water Consulting Date 4/15/2025

Sample Location <u>NORTH COURSE</u>			TEE	FAIRWAY	GREEN		
Sample Identification			4	4	4		
Lab Number			1512-1	1513-1	1514-1		
Total Exchange Capacity (ME/100 g)			14.91	16.29	5.57		
pH (H ₂ O 1:1)			a 7.6	a 7.9	a 7.6		
Organic Matter (360°C LOI) %			3.40	3.87	0.92		
Estimated Nitrogen Release lb/A			84	89	37		
ANIONS	SOLUBLE SULFUR* ppm		133	113	24		
	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		247 54	202 44	128 28		
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3528 1764	3826 1913	1492 746		
	MAGNESIUM* lb/A ppm		854 427	952 476	268 134		
	POTASSIUM* lb/A ppm		278 139	456 228	78 39		
	SODIUM* lb/A ppm		740 370	738 369	190 95		
	BASE SATURATION PERCENT						
	Calcium %		59.15	58.72	66.97		
	Magnesium %		23.87	24.35	20.05		
	Potassium %		2.39	3.59	1.80		
	Sodium %		10.79	9.85	7.42		
	Other Bases %		3.80	3.50	3.80		
	Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			2.39	2.93	0.89		
Iron** (ppm)			398	228	205		
Manganese** (ppm)			65	140	59		
Copper** (ppm)			3.08	1.29	0.96		
Zinc** (ppm)			20.24	14.09	9.84		
Aluminum** (ppm)			147	105	65		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		2.8	9.7	1.0		
	NH ₄ -N (ppm)		1.6	2.1	1.0		

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location <u>SOUTH COURSE</u>			TEE	FAIRWAY	GREEN		
Sample Identification			4	4	4		
Lab Number			1515-1	1516-1	1517-1		
Total Exchange Capacity (ME/100 g)			15.78	29.71	5.16		
pH (H ₂ O 1:1)			a 8.0	a 7.7	a 7.6		
Organic Matter (360°C LOI) %			4.34	4.64	0.99		
Estimated Nitrogen Release lb/A			93	96	40		
ANIONS	SOLUBLE SULFUR* ppm		67	2117	31		
	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		256 56	197 43	73 16		
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm		3652 1826	8598 4299	1432 716		
	MAGNESIUM* lb/A ppm		1000 500	1016 508	228 114		
	POTASSIUM* lb/A ppm		504 252	690 345	84 42		
	SODIUM* lb/A ppm		600 300	918 459	152 76		
	BASE SATURATION PERCENT						
	Calcium %		57.86	72.35	69.38		
	Magnesium %		26.40	14.25	18.41		
	Potassium %		4.09	2.98	2.09		
	Sodium %		8.27	6.72	6.40		
	Other Bases %		3.40	3.70	3.80		
	Hydrogen %		0.00	0.00	0.00		
EXTRACTABLE MINORS							
Boron** (ppm)			3.16	3.67	0.80		
Iron** (ppm)			199	282	190		
Manganese** (ppm)			138	103	56		
Copper** (ppm)			2.35	2.55	1.21		
Zinc** (ppm)			17.85	12.05	12.03		
Aluminum** (ppm)			171	133	63		
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		1.4	10.7	1.6		
	NH ₄ -N (ppm)		1.3	2.4	0.7		

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** Mehlich III Extractable