

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name Canyon Gate Country Club City Las Vegas State NVIndependent Consultant Soil and Water Consulting Date 3/30/2016

Sample Location <u>GREEN</u>		2	4	5	8	12
Sample Identification						
Lab Number		0585-1	0586-1	0587-1	0588-1	0589-1
Total Exchange Capacity (ME/100 g)		8.18	8.36	8.83	8.39	7.97
pH (H ₂ O 1:1)		a 8.1	a 8.3	a 8.4	a 8.1	a 8.1
Organic Matter (humus) %		0.77	0.69	0.73	0.58	0.59
Estimated Nitrogen Release lb/A		31	28	29	23	24
ANIONS	SOLUBLE SULFUR* ppm	40	38	51	41	33
	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	165 36	128 28	137 30	147 32	105 23
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2596 1298	2658 1329	2810 1405	2672 1336	2588 1294
	MAGNESIUM* lb/A ppm	206 103	204 102	212 106	200 100	178 89
	POTASSIUM* lb/A ppm	180 90	206 103	218 109	186 93	148 74
	SODIUM* lb/A ppm	154 77	158 79	174 87	168 84	140 70
BASE SATURATION PERCENT						
Calcium %		79.34	79.49	79.56	79.62	81.18
Magnesium %		10.49	10.17	10.00	9.93	9.31
Potassium %		2.82	3.16	3.17	2.84	2.38
Sodium %		4.09	4.11	4.28	4.35	3.82
Other Bases %		3.30	3.10	3.00	3.30	3.30
Hydrogen %		0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		7	4	6	4	4
Manganese** (ppm)		2	2	1	2	1
Copper** (ppm)		1.05	0.65	0.74	0.66	0.57
Zinc** (ppm)		6.84	4.91	4.55	5.22	4.19
Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** DTPA Extractable

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Sample Location <u>GREEN</u>		13	14	15	17	
Sample Identification						
Lab Number		0590-1	0591-1	0592-1	0593-1	
Total Exchange Capacity (ME/100 g)		8.76	9.65	9.17	8.92	
pH (H ₂ O 1:1)		a 8.1	a 8.2	a 8.1	a 8.1	
Organic Matter (humus) %		0.50	0.79	0.69	0.72	
Estimated Nitrogen Release lb/A		20	32	28	29	
ANIONS	SOLUBLE SULFUR* ppm	36	51	39	45	
	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	73 16	124 27	105 23	78 17	
EXCHANGEABLE CATIONS	CALCIUM* lb/A ppm	2826 1413	3022 1511	2868 1434	2810 1405	
	MAGNESIUM* lb/A ppm	198 99	256 128	238 119	222 111	
	POTASSIUM* lb/A ppm	188 94	230 115	238 119	220 110	
	SODIUM* lb/A ppm	156 78	196 98	186 93	180 90	
BASE SATURATION PERCENT						
Calcium %		80.65	78.29	78.19	78.76	
Magnesium %		9.42	11.05	10.81	10.37	
Potassium %		2.75	3.06	3.33	3.16	
Sodium %		3.87	4.42	4.41	4.39	
Other Bases %		3.30	3.20	3.30	3.30	
Hydrogen %		0.00	0.00	0.00	0.00	
EXTRACTABLE MINORS						
Boron M3 (ppm)						
Iron** (ppm)		4	5	5	5	
Manganese** (ppm)		1	1	2	1	
Copper** (ppm)		0.50	0.73	0.69	0.49	
Zinc** (ppm)		3.24	4.92	4.14	5.56	
Aluminum (ppm)						
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

a - alkaline soil

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