

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

47746-39

Name Dragon Ridge C.C. City Henderson State NVIndependent Consultant Soil and Water Consulting Date 4/16/2024

Sample Location <u>GREEN</u>			PG	1	2	3	4
Sample Identification							
Lab Number			0385-1	0386-1	0387-1	0388-1	0389-1
Total Exchange Capacity (ME/100 g)			5.98	6.17	6.56	6.09	7.19
pH (H ₂ O 1:1)			a 7.8	a 8.3	a 8.1	a 8.3	a 8.3
Organic Matter (360°C LOI) %			0.86	0.91	0.92	0.86	0.93
Estimated Nitrogen Release lb/A			34	36	37	34	37
ANIONS	SOLUBLE SULFUR* ppm		29	21	24	22	25
	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	41 9	37 8	50 11	32 7	55 12
EXCHANGEABLE CATIONS	CALCIUM*		1824 ppm	1914 ppm	2028 ppm	1918 ppm	2270 ppm
	MAGNESIUM*		180 ppm	194 ppm	212 ppm	180 ppm	212 ppm
	POTASSIUM*		134 ppm	100 ppm	90 ppm	86 ppm	96 ppm
	SODIUM*		130 ppm	120 ppm	126 ppm	114 ppm	130 ppm
			65	60	63	57	65
	BASE SATURATION PERCENT						
	Calcium	%	76.25	77.55	77.29	78.74	78.93
	Magnesium	%	12.54	13.10	13.47	12.32	12.29
	Potassium	%	2.87	2.08	1.76	1.81	1.71
	Sodium	%	4.73	4.23	4.18	4.07	3.93
	Other Bases	%	3.60	3.10	3.30	3.10	3.10
	Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS							
Boron** (ppm)			0.44	0.58	0.64	0.44	0.47
Iron** (ppm)			56	61	64	58	63
Manganese** (ppm)			36	42	36	24	21
Copper** (ppm)			< 0.2	< 0.2	0.35	0.24	0.55
Zinc** (ppm)			1.70	1.14	2.53	1.13	2.02
Aluminum** (ppm)			61	45	65	63	62
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	NH ₄ -N (ppm)		1.9	1.4	0.6	0.6	0.9

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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Sample Location			GREEN	5	6	7	8	9
Sample Identification								
Lab Number				0390-1	0391-1	0392-1	0393-1	0394-1
Total Exchange Capacity (ME/100 g)				6.21	5.61	6.15	6.26	6.46
pH (H ₂ O 1:1)				a 8.3	a 8.3	a 8.3	a 8.3	a 8.4
Organic Matter (360°C LOI) %				0.71	0.82	0.82	0.80	0.75
Estimated Nitrogen Release lb/A				28	33	33	32	30
ANIONS	SOLUBLE SULFUR* ppm			23	23	18	23	25
	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	55 12	37 8	37 8	73 16	73 16	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	1950	1716	1940	1946	2012
			ppm	975	858	970	973	1006
	MAGNESIUM*		lb/A	186	182	188	198	202
			ppm	93	91	94	99	101
	POTASSIUM*		lb/A	90	96	82	82	100
			ppm	45	48	41	41	50
	SODIUM*		lb/A	114	122	100	124	124
			ppm	57	61	50	62	62
BASE SATURATION PERCENT								
Calcium %				78.50	76.47	78.86	77.72	77.86
Magnesium %				12.48	13.52	12.74	13.18	13.03
Potassium %				1.86	2.19	1.71	1.68	1.98
Sodium %				3.99	4.73	3.53	4.31	4.17
Other Bases %				3.10	3.10	3.10	3.10	3.00
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.43	0.40	0.31	0.38	0.44
Iron** (ppm)				52	53	58	50	56
Manganese** (ppm)				25	25	24	19	22
Copper** (ppm)				< 0.2	0.27	< 0.2	< 0.2	0.22
Zinc** (ppm)				0.81	0.95	1.20	1.11	2.92
Aluminum** (ppm)				52	54	55	49	54
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	NH4-N (ppm)			1.4	0.8	1.0	1.2	0.8

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Sample Location			GREEN	10	11	12	13	14
Sample Identification								
Lab Number				0395-1	0396-1	0397-1	0398-1	0399-1
Total Exchange Capacity (ME/100 g)				8.18	7.37	5.97	6.72	6.37
pH (H ₂ O 1:1)				a 8.3	a 8.3	a 8.4	a 8.2	a 8.2
Organic Matter (360°C LOI) %				0.98	0.83	0.90	0.94	0.97
Estimated Nitrogen Release lb/A				39	33	36	38	39
ANIONS	SOLUBLE SULFUR* ppm			37	28	20	25	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						
		OLSEN lb/A P as P ₂ O ₅ ppm of P	55 12	37 8	23 5	37 8	60 13	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	2556	2300	1858	2120	1942
			ppm	1278	1150	929	1060	971
	MAGNESIUM*		lb/A	256	230	190	202	210
			ppm	128	115	95	101	105
	POTASSIUM*		lb/A	112	100	86	80	102
			ppm	56	50	43	40	51
	SODIUM*		lb/A	152	142	112	118	140
			ppm	76	71	56	59	70
BASE SATURATION PERCENT								
Calcium %				78.12	78.02	77.81	78.87	76.22
Magnesium %				13.04	13.00	13.26	12.52	13.74
Potassium %				1.76	1.74	1.85	1.53	2.05
Sodium %				4.04	4.19	4.08	3.82	4.78
Other Bases %				3.10	3.10	3.00	3.20	3.20
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.50	0.36	0.31	0.35	0.38
Iron** (ppm)				57	49	47	57	44
Manganese** (ppm)				36	19	20	19	25
Copper** (ppm)				< 0.2	0.35	0.21	< 0.2	< 0.2
Zinc** (ppm)				2.11	1.58	1.16	1.11	0.79
Aluminum** (ppm)				50	52	44	27	32
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	NH4-N (ppm)			0.9	1.1	0.5	1.2	1.2

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Sample Location			GREEN	15	16	17	18	RANGE
Sample Identification								
Lab Number				0400-1	0401-1	0402-1	0403-1	0404-1
Total Exchange Capacity (ME/100 g)				6.46	5.69	6.87	6.21	6.72
pH (H ₂ O 1:1)				a 8.2	a 8.2	a 8.3	a 8.2	a 8.1
Organic Matter (360°C LOI) %				0.76	0.78	0.96	0.84	0.81
Estimated Nitrogen Release lb/A				30	31	38	34	32
ANIONS	SOLUBLE SULFUR* ppm			20	16	20	23	22
	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	18 4	78 17	115 25	41 9	92 20	
EXCHANGEABLE CATIONS	CALCIUM*		lb/A	2032	1794	2196	1936	2118
			ppm	1016	897	1098	968	1059
	MAGNESIUM*		lb/A	196	172	196	190	198
			ppm	98	86	98	95	99
	POTASSIUM*		lb/A	74	76	78	104	98
			ppm	37	38	39	52	49
	SODIUM*		lb/A	120	98	116	114	118
			ppm	60	49	58	57	59
BASE SATURATION PERCENT								
Calcium %				78.64	78.82	79.91	77.94	78.79
Magnesium %				12.64	12.60	11.89	12.75	12.28
Potassium %				1.47	1.71	1.46	2.15	1.87
Sodium %				4.04	3.74	3.67	3.99	3.82
Other Bases %				3.20	3.20	3.10	3.20	3.30
Hydrogen %				0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS								
Boron** (ppm)				0.51	0.51	0.54	0.35	0.36
Iron** (ppm)				60	101	72	61	54
Manganese** (ppm)				29	24	28	21	23
Copper** (ppm)				< 0.2	0.31	0.25	< 0.2	0.22
Zinc** (ppm)				1.17	1.71	1.84	1.33	1.71
Aluminum** (ppm)				64	84	43	55	52
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							
	NO3-N (ppm)			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	NH4-N (ppm)			1.9	1.0	1.2	1.3	1.5

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