lb/A

BROOKSIDE LABORATORIES, INC.

58251-46

SOIL AUDIT AND INVENTORY REPORT

Name: Renergy, Inc. City: Delaware State: OH

Independent Consultant: Brookside Consultants of Ohio, Inc. Date: 07/22/2020

Sample Location MOQ-05-09A	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5
Sample Identification					
Lab Number	1376-1	1377-1	1378-1	1379-1	1380-1
Total Exchange Capacity (ME/100 g)	10.16	16.19	11.69	11.25	16.10
pH (H_2O 1:1)	7.2	7.5	6.0	6.8	6.4
Organic Matter (360°C LOI) %	3.15	5.37	3.24	3.14	4.45
Estimated Nitrogen Release lb/A	82	102	82	81	94
SOLUBLE SULFUR* ppm	7	11	7	6	6
MEHLICH III lb/A P as P_2O_5 / ppm of P					
BRAY II lb/A P as P_2O_5 / ppm of P					
OLSEN lb/A P as P_2O_5 / ppm of P					
CALCIUM* lb/A / ppm	2858 / 1429	4562 / 2281	2864 / 1432	3168 / 1584	4308 / 3154
MAGNESIUM* lb/A / ppm	554 / 277	842 / 421	436 / 218	502 / 251	628 / 314
POTASSIUM* lb/A / ppm	172 / 86	466 / 233	208 / 104	246 / 123	306 / 153
SODIUM* lb/A / ppm	26 / 13	24 / 12	30 / 15	30 / 15	32 / 16
BASE SATURATION PERCENT					
Calcium %	70.32	70.44	61.25	70.40	66.89
Magnesium %	22.72	21.67	15.54	18.59	16.25
Potassium %	2.17	3.69	2.28	2.80	2.44
Sodium %	0.56	0.32	0.56	0.58	0.43
Other Bases %	4.20	3.90	5.40	4.60	5.00
Hydrogen %	0.00	0.00	15.00	3.00	9.00
EXTRACTABLE MINORS					
Boron* (ppm)	0.62	1.19	0.46	0.66	0.68
Iron* (ppm)	165	331	156	160	314
Manganese* (ppm)	45	56	94	50	17
Copper* (ppm)	1.87	5.31	1.79	1.66	3.80
Zinc* (ppm)	1.34	7.80	1.96	1.22	2.90
Aluminum* (ppm)	507	445	672	560	631
Soluble Salts (mmhos/cm)					
Chloride (ppm)					
Bray I P (ppm)	18	51	25	16	20

a - alkaline soil

* Mehlich III Extractable

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Sample Location MOQ-05-09A	POINT 6	POINT 7	POINT 8		
Sample Identification					
Lab Number	1381-1	1382-1	1383-1		
Total Exchange Capacity (ME/100 g)	10.97	13.96	15.97		
pH (H_2O 1:1)	6.1	6.3	7.3		
Organic Matter (360°C LOI) %	3.39	3.50	3.79		
Estimated Nitrogen Release lb/A	84	95	88		
SOLUBLE SULFUR* ppm	7	6	6		
MEHLICH III lb/A P as P_2O_5 / ppm of P					
BRAY II lb/A P as P_2O_5 / ppm of P					
OLSEN lb/A P as P_2O_5 / ppm of P					
CALCIUM* lb/A / ppm	2638 / 1319	3470 / 1735	4348 / 2174		
MAGNESIUM* lb/A / ppm	462 / 231	660 / 330	972 / 486		
POTASSIUM* lb/A / ppm	258 / 129	228 / 114	254 / 127		
SODIUM* lb/A / ppm	32 / 16	30 / 15	30 / 15		
BASE SATURATION PERCENT					
Calcium %	60.12	62.14	68.07		
Magnesium %	17.55	19.70	25.36		
Potassium %	3.02	2.09	2.04		
Sodium %	0.63	0.47	0.41		
Other Bases %	5.20	5.10	4.10		
Hydrogen %	13.50	10.50	0.00		
EXTRACTABLE MINORS					
Boron* (ppm)	0.62	0.62	0.62		
Iron* (ppm)	261	189	154		
Manganese* (ppm)	59	46	76		
Copper* (ppm)	2.17	2.70	2.72		
Zinc* (ppm)	2.13	1.89	1.87		
Aluminum* (ppm)	602	660	595		
Soluble Salts (mmhos/cm)					
Chlorides (ppm)					
Iron P (ppm)	29	25	16		

* Mehlich III Extractable