lb/A

BROOKSIDE LABORATORIES, INC.

74155-2

SOIL AUDIT AND INVENTORY REPORT

Name Dovetail Bio Energy/Renergy City Marengo State OH

Independent Consultant Brookside Consultants of Ohio, Inc. Date 07/30/2015

		CLQ-01-02	CLQ-01-03	CLQ-01-04	CLQ-01-05	
Sample Location WISE		3.6A 1	6.7A 2	13.5A 3	35.8 East 4	35.8 West 5
Sample Identification		1 OF 5	2 OF 5	3 OF 5	4 OF 5	5 OF 5
Lab Number		0052-1	0053-1	0054-1	0055-1	0056-1
Total Exchange Capacity (ME/100 g)		11.33	24.36	15.60	126.49	34.56
pH	Buffer (SMP/Sikora)	7.2	a NA	7.0	a NA	a NA
	H_2O (1:1)	6.8	8.0	6.7	8.1	7.8
Organic Matter (humus) %		1.87	1.94	1.92	6.00	3.61
Estimated Nitrogen Release	lb/A	57	59	58	105	86
ANIONS: SOLUBLE SULFUR*	ppm	5	5	5	13	7
PHOSPHORUS: MEHLICH III	lb/A P as P_2O_5	18	9	18	< 5	37
	ppm of P	4	2	4	< 1	8
BRAY II	lb/A P as P_2O_5					
	ppm of P					
OLSEN	lb/A P as P_2O_5					
	ppm of P					
EXCHANGEABLE CATIONS: CALCIUM*	lb/A	3196	7106	4240	48524	12912
	ppm	1598	3553	2120	24262	6456
MAGNESIUM*	lb/A	742	1504	1138	1200	492
	ppm	371	752	569	600	246
POTASSIUM*	lb/A	134	192	146	44	102
	ppm	67	96	73	22	51
SODIUM*	lb/A	36	38	34	56	44
	ppm	18	19	17	28	22
BASE SATURATION PERCENT						
Calcium	%	70.52	72.93	67.95	95.90	93.40
Magnesium	%	27.29	25.73	30.40	3.95	5.93
Potassium	%	1.52	1.01	1.20	0.04	0.38
Sodium	%	0.69	0.34	0.47	0.10	0.28
Other Bases	%	NA	NA	NA	NA	NA
Hydrogen	%	0.00	0.00	0.00	0.00	0.00
EXTRACTABLE MINORS						
Boron* (ppm)		0.43	0.44	0.36	0.65	1.07
Iron* (ppm)		102	87	104	18	63
Manganese* (ppm)		99	135	119	10	65
Copper* (ppm)		1.47	1.66	1.53	0.93	2.53
Zinc* (ppm)		1.14	0.74	0.80	1.71	1.51
Aluminum* (ppm)		635	624	761	20	181
OTHER TESTS: Soluble Salts (mmhos/cm)						
Chlorides (ppm)						

a - alkaline soil

* Mehlich III Extractable