lb/A

BROOKSIDE LABORATORIES, INC.

38734-14

SOIL AUDIT AND INVENTORY REPORT

Name Ringler Feedlots City Marengo State OH

Independent Consultant Brookside Consultants of Ohio, Inc. Date 04/03/2014

Sample Location STEAMTOWN			STEAM	STEAM	STEAM	STEAM
Sample Identification			NW1	NW2	NW3	NW4
Lab Number			0219-1	0220-1	0221-1	0222-1
Total Exchange Capacity (ME/100 g)			22.21	18.71	16.24	22.81
pH (H_2O 1:1)			6.6	6.8	6.7	6.2
Organic Matter (humus) %			3.10	2.96	2.74	3.40
Estimated Nitrogen Release		lb/A	81	79	75	84
ANIONS	SOLUBLE SULFUR*	ppm	7	7	9	9
PHOSPHORUS	MEHLICH III	lb/A P as P_2O_5	73	82	174	92
		ppm of P	16	18	38	20
	BRAY II	lb/A P as P_2O_5	238	234	353	211
		ppm of P	52	51	77	46
	OLSEN	lb/A P as P_2O_5				
		ppm of P				
EXCHANGEABLE CATIONS	CALCIUM*	lb/A	6218	5078	4028	5640
		ppm	3109	2539	2014	2820
	MAGNESIUM*	lb/A	780	730	580	836
		ppm	390	365	290	418
	POTASSIUM*	lb/A	656	936	1332	740
		ppm	328	468	666	370
	SODIUM*	lb/A	82	160	252	162
		ppm	41	80	126	81
BASE SATURATION PERCENT						
Calcium		%	69.99	67.85	62.01	61.81
Magnesium		%	14.63	16.26	14.88	15.27
Potassium		%	3.79	6.41	10.52	4.16
Sodium		%	0.80	1.86	3.37	1.54
Other Bases		%	4.80	4.60	4.70	5.20
Hydrogen		%	6.00	3.00	4.50	12.00
EXTRACTABLE MINORS						
Boron* (ppm)			0.72	0.92	4.25	4.94
Iron* (ppm)			160	168	220	232
Manganese* (ppm)			32	32	24	17
Copper* (ppm)			2.89	2.63	2.80	4.14
Zinc* (ppm)			1.47	1.40	1.85	2.60
Aluminum* (ppm)			670	624	624	724
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					

* Mehlich III Extractable