2022 North American Proficiency Testing Program
Quarter 4 Plant Report - 1/17/2023

Laboratory ID
General

Plant			Plant 2022-210			Plant 2022-211			Plant 2022-212		
Analysis	**Units**	**n**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**	**Median**	**MAD**	**Lab Result**
Dry Matter & Non-Digest Nutrients											
Dry Matter	%	19	92.9	1.86		90.4	1.81		91.7	1.83	
NO3 - N Cd Rd.	mg/kg	20	25.6	6.07		162.0	14.3		2250.0	200.0	
NO3 - N ISE	mg/kg	3	102.0	N/A		245.0	N/A		2180.0	N/A	
NO3 - N Other	mg/kg	3	240.0	N/A		220.0	N/A		2340.0	N/A	
NH4 - N	mg/kg	4	51.8	N/A		149.0	N/A		197.0	N/A	
PO4 - P	mg/kg	6	1600.0	44.0		2070.0	190.0		1920.0	201.0	
SO4 - S	mg/kg	3	160.0	N/A		1020.0	N/A		10900.0	N/A	
Cl	%	16	0.20	0.020		0.26	0.047		1.36	0.077	
Total Nâ€"Kjeldahl	%	10	1.36	0.040		0.59	0.048		3.88	0.10	
Total N-combustion	%	57	1.37	0.030		0.53	0.030		3.96	0.079	
Total S-combustion	%	9	0.087	0.020		0.13	0.020		0.97	0.092	
Total C-combustion	%	12	44.2	0.88		38.4	0.77		38.0	0.78	
Nitric / Perchloric Digest											
P	%	23	0.30	0.020		0.27	0.020		0.35	0.020	
K	%	27	1.40	0.094		3.08	0.23		2.50	0.14	
Ca	%	27	2.82	0.17		1.93	0.11		2.84	0.088	
Mg	%	27	0.72	0.044		0.86	0.043		1.44	0.052	
S	%	20	0.081	0.020		0.12	0.020		0.94	0.035	
Na	%	23	0.036	0.020		0.053	0.020		0.17	0.020	
B	mg/kg	20	48.6	2.18		36.5	2.04		83.0	4.32	
Cu	mg/kg	23	5.84	0.34		14.1	0.68		17.1	1.00	
Fe	mg/kg	21	140.0	10.0		51.7	6.65		274.0	14.8	
Mn	mg/kg	24	26.3	1.65		282.0	16.9		86.0	4.76	
Mo	mg/kg	9	0.76	0.12		0.70	0.065		0.88	0.12	
Zn	mg/kg	24	15.3	1.14		72.9	3.97		38.5	1.55	
Al	mg/kg	15	87.8	9.74		49.0	6.38		146.0	19.6	
Ba	mg/kg	3	36.7	N/A		164.0	N/A		62.2	N/A	
Cd	mg/kg								0.92	N/A	
Co	mg/kg	1	0.090	N/A		0.31	N/A		0.42	N/A	
Cr	mg/kg	3	0.42	N/A		0.55	N/A		0.75	N/A	
Ni	mg/kg	3	1.40	N/A		5.30	N/A		5.60	N/A	
Pb	mg/kg										
Se	mg/kg	1	4.00	N/A					1.00	N/A	
Sr	mg/kg	2	86.2	N/A		141.0	N/A		189.0	N/A	
V	mg/kg	1	20.0	N/A		25.0	N/A		41.0	N/A	
Nitric / Peroxide- MICROWAVE											
P	%	29	0.30	0.020		0.27	0.020		0.35	0.020	
K	%	31	1.39	0.041		3.04	0.13		2.50	0.083	
Ca	%	31	2.82	0.11		1.88	0.077		2.87	0.090	
Mg	%	30	0.70	0.020		0.83	0.020		1.40	0.035	
S	%	28	0.090	0.020		0.13	0.020		0.96	0.041	
Na	%	20	0.035	0.020		0.051	0.020		0.17	0.020	
B	mg/kg	30	50.6	1.94		37.0	0.74		85.0	3.11	
Cu	mg/kg	29	5.80	0.20		13.5	0.75		16.4	0.62	
Fe	mg/kg	29	143.0	7.40		52.2	4.52		284.0	11.2	
Mn	mg/kg	31	26.7	1.18		276.0	17.0		84.8	2.30	
Mo	mg/kg	12	0.71	0.090		0.67	0.043		0.89	0.14	
Zn	mg/kg	28	15.4	0.55		72.6	3.52		38.8	2.09	
Al	mg/kg	19	136.0	12.7		65.8	6.32		206.0	44.4	
Ba	mg/kg	1	38.2	N/A		178.0	N/A		69.0	N/A	
Cd	mg/kg								0.86	N/A	
Co	mg/kg					0.43	N/A		0.35	N/A	
Cr	mg/kg	2	0.64	N/A		0.18	N/A		1.07	N/A	
Ni	mg/kg	1	1.37	N/A		7.03	N/A		5.84	N/A	
Pb	mg/kg	1	0.32	N/A		0.28	N/A		0.26	N/A	
Se	mg/kg								0.54	N/A	
Sr	mg/kg	1	95.3	N/A		168.0	N/A		221.0	N/A	
V	mg/kg								0.92	N/A	
Dry Ash											
P	%	13	0.29	0.020		0.27	0.020		0.34	0.025	
K	%	13	1.30	0.060		2.92	0.20		2.47	0.19	
Ca	%	13	2.69	0.15		1.81	0.090		2.75	0.15	
Mg	%	12	0.66	0.020		0.79	0.030		1.35	0.075	
Na	%	11	0.040	0.020		0.060	0.020		0.19	0.044	
B	mg/kg	14	47.5	2.57		35.5	3.48		82.2	3.90	
Cu	mg/kg	14	5.92	0.66		13.6	1.04		15.5	1.37	
Fe	mg/kg	13	136.0	17.5		54.5	8.82		274.0	52.3	
Mn	mg/kg	14	25.8	1.80		274.0	14.6		80.6	2.70	
Mo	mg/kg	2	0.89	N/A		0.78	N/A		0.90	N/A	
Zn	mg/kg	12	15.0	1.65		72.3	6.74		37.2	4.03	
Al	mg/kg	3	143.0	N/A		59.0	N/A		215.0	N/A	
Ba	mg/kg										
Cd	mg/kg										
Co	mg/kg										
Cr	mg/kg										
Ni	mg/kg										
Pb	mg/kg										
Se	mg/kg										
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