

Certificate of Analysis



Certificate Number: 20-009931

Report Date: August 07, 2020

Client:

ADVANTAGE LAND CO

510 MAIN AVE

STE 4

Brookings

SD

57006

UNITED STATES

Sample Information:

SGS Sample Identification: MW20-05606.002

Client Sample Identification: NUEHARTH - WOLSEY 2ND CUT 2020 FIELD 1

Received: July 27, 2020

Sample/Product Type: Hay

The sample condition upon arrival was acceptable for testing.

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Analysis	Result	Units	L.O.Q.	Method
Relative Feed Value (RFV)	187		N/A	SDSU Extension ExEx8149 (August 2004)

Analysis	As Received	On Dry Matter	Units	Method
Drymatter *	80.74	--	%	AOAC 930.15
Moisture *	19.26	--	%	AOAC 930.15
Crude protein content *	18.80	23.30	%	AOAC 990.03
ADF	23.70	29.40	%	ANKOM Technology Method 5
NDF	26.50	32.80	%	ANKOM Technology Method 6
Total digestible nutrients	55.70	69.00	%	Calculation
Net Energy Lactation	0.57	0.71	Mcal/lb	Calculation
Net Energy Maintenance	0.56	0.70	Mcal/lb	Calculation
Net Energy Gain	0.35	0.43	Mcal/lb	Calculation
Calcium	1.36	1.68	%	ANA008CHEM
Copper	9.80	12.10	PPM	ANA008CHEM
Iron	113.00	140.00	PPM	ANA008CHEM
Potassium	2.03	2.52	%	ANA008CHEM
Magnesium	0.34	0.42	%	ANA008CHEM
Manganese	61.40	76.00	PPM	ANA008CHEM
Sodium	0.02	0.03	%	ANA008CHEM
Phosphorous	0.20	0.25	%	ANA008CHEM
Sulfur	0.27	0.33	%	ANA008CHEM
Zinc	30.00	37.20	PPM	ANA008CHEM

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected

* Analytical results were determined by a third party laboratory. Information concerning the subcontracted laboratory is available upon request. Liability for the subcontracted results remain with the subcontracted laboratory.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

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Dustin Edmison
Laboratory Manager

Start/End Analysis: 07/27/2020 - 08/07/2020

Method References: ANA008CHEM: AOAC 2011.14
EN17053:2018
USP <2232>
EPA 200.7

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