



CUMBERLAND VALLEY ANALYTICAL SERVICES

" Laboratory services for agriculture ... from the field to the feed bunk "

Farm: **CLAPPERTON RANCH**
Desc: **2020, 3rd Cut, Alfalfa/Grass, Top Field**
Submitter: **SWIFT, MARYLOU**
Account: **TROUW NUTRITION CANADA-CHILLIWACK**

Copies to: **WILLIX, AMY**

Lab ID: **29178 006**
Sampled: **09/16/2020**
Arrived: **09/18/2020**
Completed: **09/21/2020**
Reported: **09/21/2020**

3RD CUT TOP FIELD AG HAY

SAMPLE INFORMATION

Lab ID:	29178 006	Version:	1.0
Crop Year:		Series:	
Feed Type:	MML FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS

Moisture	11.9
Dry Matter	88.1

PROTEINS

	% SP	% CP	% DM
Crude Protein			22.1
Adjusted Protein			22.1
Soluble Protein		40.7	9.0
Ammonia (CPE)	13.6	5.5	1.22
ADF Protein (ADICP)		4.9	1.08
NDF Protein (NDICP)		8.7	1.93
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.4	15.5
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	78.4	30.0
aNDF		38.3
aNDFom		37.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	13.8	5.29
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		26.9	7.8
Water Soluble CHO (WSC-Sugar)			9.2
Starch	2.9		0.9
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.66
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	9.95
Calcium (%DM)	1.46
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.40
Potassium (%DM)	2.26
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

Equine TDN (%DM)	58.4
Equine DE (Mcal/lb)	1.17
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.67
Net Energy Gain (Mcal/lb)	0.40
ME (Mcal/lb)	1.06
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.9
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	159
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	29.0
Non Structural Carbohydrates (%DM)	10.1
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



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