MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
1411 S. 12th St. ~ Bismarck, ND 58502 ~ 800-279-6885 ~ Fax 701-258-9724
51 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER
ACIL

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER

Sample Number: 09-F404

Report Date: 11/12/09

Pat Brady
Atlas Products
1333 E. Johns Prairie Road
Shelton WA 98584

Work Order #: 81-1413

Date Received: 10/29/09

Sample Description: Ultra Premium Red Fir Pellets

*** PROXIMATE ***

ANALYTE	AS RECEIVED		DRY BASIS	
Total Moisture	6.25	wt. %		
Ash	0.07	wt. %	0.07	wt. %
BTU/lb	8275	BTU/lb	8826	BTU/lb
Total Sulfur	0.02	wt. %	0.02	wt. %

*** ULTIMATE ***

ANALYTE	AS RECEIVED		DRY BASIS	
Total Moisture	6.25	wt. %		
Ash	0.07	wt. %	0.07	wt. %
Total Sulfur	0.02	wt. %	0.02	wt. %
Chlorine	34.5	ug/g	36.8	ug/g

*** SULFUR FORMS ***

ANALYTE	AS RECEIVED		DRY BASIS	
Total Sulfur	0.02	wt. %	0.02	wt. %

*** ASH FUSION ***

ANALYTE	REDUCING	OXIDIZING
Intial Def. Temp.	> 2706 Degrees F	2248 Degrees F
Softening Temp.	> 2706 Degrees F	2252 Degrees F
Hemispherical Temp.	> 2706 Degrees F	2289 Degrees F
Fluid Temp.	> 2706 Degrees F	2538 Degrees F

*** MINERAL ANALYSIS OF ASH ***

ANALYTE	DRY BASIS

*** MISCELLANEOUS ***

ANALYTE	AS RECEIVED	DRY BASIS

Comment: Average Pellet Diameter: 0.259 inches
Pellet Diameter Range: 0.257 to 0.262 inches
Maximum Pellet Length: 1.36 inches
Pellets Exeeding 1.50 inches in Length: <1.0 wt.%
Bag Weight: 40.8 pounds
Pellet Durability Index: 98.8
Bulk Density: 42.2 lbs/cu ft
Fines: 0.17 wt%

Approved by: Stacy Larson