

Juneau Economic Development Council
 204 Siginaka Way
 Sitka, AK 99835

Date Received: 1/25/2010
 Date Reported: 2/3/2010

Purchase Order #:

Attn: Daniel Parrent

Sample Log No: 10C0292

Sample Designation: A, 100% Hemlock

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		5.79
Ash	ASTM D1102	wt. %	0.35	0.33
Sulfur	ASTM D4239	wt. %	0.011	0.010
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne	18.28	17.08
Net Cal. Value at Const. Pressure	ISO 1928	J/g	18277	17078
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19551	18419
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8406	7919
Carbon	ASTM D5373	wt. %	51.67	48.59
Hydrogen	ASTM D5373	wt. %	5.85	5.50
Nitrogen	ASTM D5373	wt. %	0.07	0.07
Oxygen	ASTM D3176	wt. %	42.05	39.71
Chlorine	ASTM D6721	mg/kg	< 10	< 10

	AS RECEIVED	UNITS		AS RECEIVED	UNITS
Bulk Density	47.21	lbs/cu.ft.	Fines	0.78	wt. %
Sample Above 1.50 inch	0.0	%	Durability Index	96.8	
Maximum Length	1.638	inch	Stated Bag Wt.		lbs
Diameter, Range	0.246 to 0.248	inch	Actual Bag Wt.		lbs
Diameter, Average	0.247	inch			

Prepared By:



Date:

2/3/10

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Sample Log No: 10C0293

Sample Designation: B, 1/3 Wh Spruce, 2/3 W Hemlock

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		6.83
Ash	ASTM D1102	wt. %	0.55	0.51
Sulfur	ASTM D4239	wt. %	0.009	0.008
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne	18.60	17.17
Net Cal. Value at Const. Pressure	ISO 1928	J/g	18605	17168
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19875	18516
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8545	7961
Carbon	ASTM D5373	wt. %	51.48	47.89
Hydrogen	ASTM D5373	wt. %	5.83	5.42
Nitrogen	ASTM D5373	wt. %	0.09	0.08
Oxygen	ASTM D3176	wt. %	42.04	39.26
Chlorine	ASTM D6721	mg/kg	11	10

	AS RECEIVED	UNITS		AS RECEIVED	UNITS
Bulk Density	46.34	lbs/cu.ft.	Fines	0.55	wt. %
Sample Above 1.50 inch	0.0	%	Durability Index	96.7	
Maximum Length	0.964	inch	Stated Bag Wt.		lbs
Diameter, Range	0.247 to 0.249	inch	Actual Bag Wt.		lbs
Diameter, Average	0.248	inch			

Prepared By:



Date:

2/3/10

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Attn: Daniel Parrent

Sample Log No: 10C0294

Sample Designation: C, 2/3 Wh Spruce, 1/3 W Hemlock

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		5.39
Ash	ASTM D1102	wt. %	0.82	0.78
Sulfur	ASTM D4239	wt. %	0.010	0.009
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne	18.51	17.38
Net Cal. Value at Const. Pressure	ISO 1928	J/g	18514	17384
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19779	18712
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8504	8045
Carbon	ASTM D5373	wt. %	51.31	48.45
Hydrogen	ASTM D5373	wt. %	5.81	5.49
Nitrogen	ASTM D5373	wt. %	0.09	0.08
Oxygen	ASTM D3176	wt. %	41.96	39.80
Chlorine	ASTM D6721	mg/kg	28	26

	AS RECEIVED	UNITS		AS RECEIVED	UNITS
Bulk Density	47.41	lbs/cu.ft.	Fines	0.65	wt. %
Sample Above 1.50 inch	0.0	%	Durability Index	96.5	
Maximum Length	1.364	inch	Stated Bag Wt.		lbs
Diameter, Range	0.248 to 0.250	inch	Actual Bag Wt.		lbs
Diameter, Average	0.249	inch			

Prepared By: *Kevin Arndt* Date: 2/3/10

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Sample Log No: 10C0295

Sample Designation: D, 100% Wh Spruce

	METHOD	UNITS	MOISTURE FREE	AS RECEIVED
Moisture Total	ASTM E871	wt. %		7.84
Ash	ASTM D1102	wt. %	0.76	0.70
Sulfur	ASTM D4239	wt. %	0.008	0.008
Net Cal. Value at Const. Pressure	ISO 1928	GJ/tonne	18.69	17.03
Net Cal. Value at Const. Pressure	ISO 1928	J/g	18690	17033
Gross Cal. Value at Const. Vol.	ASTM E711	J/g	19968	18402
Gross Cal. Value at Const. Vol.	ASTM E711	Btu/lb	8585	7912
Carbon	ASTM D5373	wt. %	51.64	47.48
Hydrogen	ASTM D5373	wt. %	5.87	5.40
Nitrogen	ASTM D5373	wt. %	0.09	0.08
Oxygen	ASTM D3176	wt. %	41.63	38.49
Chlorine	ASTM D6721	mg/kg	34	31

	AS RECEIVED	UNITS		AS RECEIVED	UNITS
Bulk Density	44.29	lbs/cu.ft.	Fines	0.74	wt. %
Sample Above 1.50 inch	0.0	%	Durability Index	93.6	
Maximum Length	0.911	inch	Stated Bag Wt.		lbs
Diameter, Range	0.249 to 0.257	inch	Actual Bag Wt.		lbs
Diameter, Average	0.254	inch			

Prepared By: *Kevin Anderson* Date: 2/3/10