Twin Ports Testing, Inc.
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1301 N. 3rd St. • Superior, WI 54880 • 715-392-7114 • 800-373-2562 • FAX 715-392-7163
P.O. Box 16246 • Duluth, MN 55816-0246 • 218-722-1911
P.O. Box 2 • Virginia, MN 55792 • 218-741-5785
www.twinportstesting.com

Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: 5/18/2007
Date Reported: 6/25/2007

Attn: Len Fagen

Sample Log No: 07C0872

Sample Designation: Pine

MINERAL ANALYSIS

Aluminum Oxide in Ash	ASTM D3682	wt. %	6.17
Barium Oxide in Ash	ASTM D3682	wt. %	0.11
Calcium Oxide in Ash	ASTM D3682	wt. %	20.48
Iron Oxide in Ash	ASTM D3682	wt. %	3.47
Magnesium Oxide in Ash	ASTM D3682	wt. %	6.59
Manganese Dioxide in Ash	ASTM D3682	wt. %	0.57
Phosphorus Pentoxide in Ash	ASTM D3682	wt. %	7.11
Potassium Oxide in Ash	ASTM D3682	wt. %	16.71
Silicon Dioxide in Ash	ASTM D3682	wt. %	30.74
Sodium Oxide in Ash	ASTM D3682	wt. %	1.68
Strontium Oxide in Ash	ASTM D3682	wt. %	0.07
Sulfur Trioxide in Ash	ASTM D3682	wt. %	4.90
Titanium Dioxide in Ash	ASTM D3682	wt. %	0.10

Prepared By: Ken Arthur

Date: 6/25/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: May 18, 2007
Date Tested: Jun 8, 2007

Attn: Len Fagan

Sample Log No: 07C0872
Sample Designation: Pine

PROXIMATE / SHORT PROXIMATE ANALYSIS REPORT

	MOISTURE & ASH FREE	MOISTURE FREE	AS RECEIVED
Moisture Total %			58.79
Ash %		0.72	0.30
Volatile Matter %		------	------
Fixed Carbon By Difference %		------	------
Sulfur %		0.55	0.23
Heating Value BTU/LB	9001	8936	3683
Chlorine ug/g		1552	640
Fluorine ug/g			
Mercury ug/g			
Carbon ug/g			

Sodium Oxide in Ash:

Hardgrove Grindability Index:

Remarks:

	Dry	As Received
Carbon	50.90 %	20.98 %
Hydrogen	6.18 %	2.55 %
Nitrogen	0.41 %	0.17 %
Oxygen	41.25 %	17.00 %

Methods: Moisture: ASTM D3173; Ash: ASTM D3174; Btu/lb: ASTM D5865; Sulfur: ASTM D4239; Chlorine: ASTM D4208;

Prepared By: Kim Anderson **Date:** 6/8/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: 5/18/2007
Date Reported: 6/25/2007

Attn: Len Fagen

Sample Log No: 07C0873

Sample Designation: Sweet Gum

MINERAL ANALYSIS

Aluminum Oxide in Ash	ASTM D3682	wt. %	0.99
Barium Oxide in Ash	ASTM D3682	wt. %	0.38
Calcium Oxide in Ash	ASTM D3682	wt. %	34.03
Iron Oxide in Ash	ASTM D3682	wt. %	0.80
Magnesium Oxide in Ash	ASTM D3682	wt. %	6.39
Manganese Dioxide in Ash	ASTM D3682	wt. %	1.50
Phosphorus Pentoxide in Ash	ASTM D3682	wt. %	3.21
Potassium Oxide in Ash	ASTM D3682	wt. %	9.17
Silicon Dioxide in Ash	ASTM D3682	wt. %	24.20
Sodium Oxide in Ash	ASTM D3682	wt. %	0.30
Strontium Oxide in Ash	ASTM D3682	wt. %	0.12
Sulfur Trioxide in Ash	ASTM D3682	wt. %	3.12
Titanium Dioxide in Ash	ASTM D3682	wt. %	0.08

Prepared By: Ken Carlson

Date: 6/25/07

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Nacogdoches Power
75 Arlington Street
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Date Received: May 18, 2007
Date Tested: Jun 8, 2007

Attn: Len Fagan

Sample Log No: 07C0873
Sample Designation: Sweet Gum

PROXIMATE / SHORT PROXIMATE ANALYSIS REPORT

	MOISTURE & ASH FREE	MOISTURE FREE	AS RECEIVED
Moisture Total %			55.14
Ash %		2.47	1.11
Volatile Matter %		------	------
Fixed Carbon By Difference %		------	------
Sulfur %		0.03	0.01
Heating Value BTU/LB	8156	7955	3569
Chlorine ug/g		663	297
Fluorine ug/g			
Mercury ug/g			
Carbon ug/g			

Sodium Oxide in Ash:

Hardgrove Grindability Index:

Remarks:

	Dry	As Received
Carbon	46.50 %	20.86 %
Hydrogen	5.95 %	2.67 %
Nitrogen	0.31 %	0.14 %
Oxygen	44.74 %	20.07 %

Methods: Moisture: ASTM D3173; Ash: ASTM D3174; Btu/lb: ASTM D5865; Sulfur: ASTM D4239; Chlorine: ASTM D4208;

Prepared By: Ken Anderson **Date:** 6/8/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: 5/18/2007
Date Reported: 6/25/2007

Attn: Len Fagen

Sample Log No: 07C0874

Sample Designation: Red Oak

MINERAL ANALYSIS

Aluminum Oxide in Ash	ASTM D3682	wt. %	1.00
Barium Oxide in Ash	ASTM D3682	wt. %	0.22
Calcium Oxide in Ash	ASTM D3682	wt. %	33.13
Iron Oxide in Ash	ASTM D3682	wt. %	1.71
Magnesium Oxide in Ash	ASTM D3682	wt. %	5.21
Manganese Dioxide in Ash	ASTM D3682	wt. %	0.79
Phosphorus Pentoxide in Ash	ASTM D3682	wt. %	5.46
Potassium Oxide in Ash	ASTM D3682	wt. %	17.59
Silicon Dioxide in Ash	ASTM D3682	wt. %	21.35
Sodium Oxide in Ash	ASTM D3682	wt. %	0.51
Strontium Oxide in Ash	ASTM D3682	wt. %	0.12
Sulfur Trioxide in Ash	ASTM D3682	wt. %	2.02
Titanium Dioxide in Ash	ASTM D3682	wt. %	0.08

Prepared By: Kevin Anderson

Date: 6/25/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: May 18, 2007

Date Tested: Jun 8, 2007

Attn: Len Fagan

Sample Log No: 07C0874
Sample Designation: Red Oak

PROXIMATE / SHORT PROXIMATE ANALYSIS REPORT

	MOISTURE & ASH FREE	MOISTURE FREE	AS RECEIVED
Moisture Total %			47.12
Ash %		0.83	0.44
Volatile Matter %		------	------
Fixed Carbon By Difference %		------	------
Sulfur %		0.04	0.02
Heating Value BTU/LB	8172	8104	4286
Chlorine ug/g		609	322
Fluorine ug/g			
Mercury ug/g			
Carbon ug/g			

Sodium Oxide in Ash:

Hardgrove Grindability Index:

Remarks:

	Dry	As Received
Carbon	47.42 %	25.08 %
Hydrogen	5.90 %	3.12 %
Nitrogen	0.30 %	0.16 %
Oxygen	45.52 %	24.02 %

Methods: Moisture: ASTM D3173; Ash: ASTM D3174; Btu/lb: ASTM D5865; Sulfur: ASTM D4239; Chlorine: ASTM D4208;

Prepared By: Kevin Arden **Date:** 6/8/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: 5/18/2007
Date Reported: 6/25/2007

Attn: Len Fagen

Sample Log No: 07C0875

Sample Designation: Post Oak

MINERAL ANALYSIS

Aluminum Oxide in Ash	ASTM D3682	wt. %	0.44
Barium Oxide in Ash	ASTM D3682	wt. %	0.36
Calcium Oxide in Ash	ASTM D3682	wt. %	46.62
Iron Oxide in Ash	ASTM D3682	wt. %	0.59
Magnesium Oxide in Ash	ASTM D3682	wt. %	4.60
Manganese Dioxide in Ash	ASTM D3682	wt. %	0.58
Phosphorus Pentoxide in Ash	ASTM D3682	wt. %	3.17
Potassium Oxide in Ash	ASTM D3682	wt. %	11.25
Silicon Dioxide in Ash	ASTM D3682	wt. %	4.97
Sodium Oxide in Ash	ASTM D3682	wt. %	0.62
Strontium Oxide in Ash	ASTM D3682	wt. %	0.12
Sulfur Trioxide in Ash	ASTM D3682	wt. %	2.32
Titanium Dioxide in Ash	ASTM D3682	wt. %	0.02

Prepared By: Kim Anderson

Date: 6/25/07

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Nacogdoches Power
75 Arlington Street
Boston, MA 02116

Date Received: May 18, 2007
Date Tested: Jun 8, 2007

Attn: Len Fagan

Sample Log No: 07C0875
Sample Designation: Post Oak

PROXIMATE / SHORT PROXIMATE ANALYSIS REPORT

	MOISTURE & ASH FREE	MOISTURE FREE	AS RECEIVED
Moisture Total %			46.88
Ash %		2.97	1.58
Volatile Matter %		------	------
Fixed Carbon By Difference %		------	------
Sulfur %		0.06	0.03
Heating Value BTU/LB	7602	7377	3918
Chlorine ug/g		1212	644
Fluorine ug/g			
Mercury ug/g			
Carbon ug/g			

Sodium Oxide in Ash:

Hardgrove Grindability Index:

Remarks:

	Dry	As Received
Carbon	46.71 %	24.81 %
Hydrogen	5.79 %	3.08 %
Nitrogen	0.54 %	0.29 %
Oxygen	43.93 %	23.33 %

Methods: Moisture: ASTM D3173; Ash: ASTM D3174; Btu/lb: ASTM D5865; Sulfur: ASTM D4239; Chlorine: ASTM D4208;

Prepared By: Ken Arden **Date:** 6/8/07

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Nacogdoches Power
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Date Received: 5/18/2007
Date Reported: 6/25/2007

Attn: Len Fagen

Sample Log No: 07C0876

Sample Designation: Hickory

MINERAL ANALYSIS

Aluminum Oxide in Ash	ASTM D3682	wt. %	0.80
Barium Oxide in Ash	ASTM D3682	wt. %	0.65
Calcium Oxide in Ash	ASTM D3682	wt. %	55.53
Iron Oxide in Ash	ASTM D3682	wt. %	0.21
Magnesium Oxide in Ash	ASTM D3682	wt. %	5.43
Manganese Dioxide in Ash	ASTM D3682	wt. %	0.62
Phosphorus Pentoxide in Ash	ASTM D3682	wt. %	2.02
Potassium Oxide in Ash	ASTM D3682	wt. %	6.42
Silicon Dioxide in Ash	ASTM D3682	wt. %	1.76
Sodium Oxide in Ash	ASTM D3682	wt. %	0.29
Strontium Oxide in Ash	ASTM D3682	wt. %	0.33
Sulfur Trioxide in Ash	ASTM D3682	wt. %	1.62
Titanium Dioxide in Ash	ASTM D3682	wt. %	0.01

Prepared By: Ken Anderson

Date: 6/25/07

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Date Received: May 18, 2007
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Attn: Len Fagan

Sample Log No: 07C0876
Sample Designation: Hickory

PROXIMATE / SHORT PROXIMATE ANALYSIS REPORT

	MOISTURE & ASH FREE	MOISTURE FREE	AS RECEIVED
Moisture Total %			43.96
Ash %		3.10	1.74
Volatile Matter %		------	------
Fixed Carbon By Difference %		------	------
Sulfur %		0.02	0.01
Heating Value BTU/LB	8656	8387	4701
Chlorine ug/g		590	331
Fluorine ug/g			
Mercury ug/g			
Carbon ug/g			

Sodium Oxide in Ash:

Hardgrove Grindability Index:

Remarks:

	Dry	As Received
Carbon	46.88 %	26.27 %
Hydrogen	5.82 %	3.26 %
Nitrogen	0.44 %	0.25 %
Oxygen	43.74 %	24.51 %

Methods: Moisture: ASTM D3173; Ash: ASTM D3174; Btu/lb: ASTM D5865; Sulfur: ASTM D4239; Chlorine: ASTM D4208;

Prepared By: Ken Arden **Date:** 6/8/07