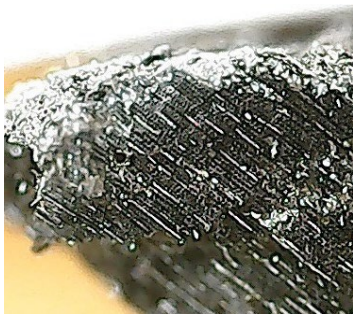


## Restorix Biochar – Indicative Pricing and Specification

Produced in Grant County Oregon from softwood forestry residues

Property	Target	Unit
Organic Carbon Content	78%	% total dry mass
Bulk Density (bone dry)	230	lbs/yd <sup>3</sup>
Moisture Content	35-45%	% wet weight
Bulk Density (as delivered)	~400	lbs/yd <sup>3</sup>
pH level	6.5-7.0	pH
Hydrogen/Carbon (H:C)	<0.6	Molar Ratio
Ash	<2%	% total dry mass
Organic Materials Review Institute Listed for organic use (product number rfa-18925)		
Bulk pricing – Full truckloads, 125+CY / 13-15 bone dry tons		
1-10 Loads \$50/CY, \$435/ton	11-50 Loads \$45/CY, \$392/ton	50+ loads \$40/CY, \$350/ton
<p>Biochar can also be delivered in 2 cubic yard supersacks with additional cost for the packaging.            Contact <a href="mailto:info@restorationfuels.com">info@restorationfuels.com</a> to discuss delivery options and additional details.            Specifications listed are averages and additional analysis can be provided upon request. Additional terms and conditions may apply</p>		



Restorix Biochar under optical zoom to show structure



Restorix Biochar fine particle size option



Restorix Biochar produced from small diameter pine chips



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## Analytical Report

E96-9397  
 RESTORATION FUELS, LLC  
 60339 West Hwy 26  
 John Day, OR 97845

<b>TP ID Number:</b>	DBL240256-1	<b>Sample Weight (lbs):</b>	0.42
<b>Product Recognized As:</b>	Biochar	<b>Sample Received:</b>	4/8/2024
<b>Sample Designation:</b>	RF Bulk Biochar 02	<b>Report Date:</b>	4/25/2024
<b>Sample Date:</b>		<b>Purchase Order:</b>	

Parameter	As-Received	Dry Basis	Analytical Method	ISO 17025
Total Moisture (%)	8.49		ISO 18134-1	Q
Ash (%)	1.34	1.47	ISO 18122	Q
Volatiles (%)	27.35	29.89	ISO 18123	Q
Fixed Carbon (%)	62.81	68.63	By Difference	
GCV (GJ/Tonne)	26.45	28.91	ISO 18125	Q
NCV cV (GJ/Tonne)	25.55	28.13	ISO 18125	Q
NCV cP (GJ/Tonne)	25.50	28.09	ISO 18125	Q
Carbon (%)	71.60	78.24	ISO 16948	Q
Hydrogen (%)	3.44	3.76	ISO 16948	Q
Nitrogen (%)	0.24	0.27	ISO 16948	Q
Oxygen (%)	14.88	16.26	ISO 16948	Q
Sulfur (%)	0.01	0.01	ISO 16994	Q

Parameter	Result	Analytical Method	ISO 17025
Corg (%)	78.12	CHNS Method	
H:Corg	0.57	CHNS Method	
O:Corg	0.16	CHNS Method	
Calcium Carbonate Equivalency (%)	0.54	By Calculation	

Parameter	Dry Basis	Analytical Method	ISO 17025
Aluminum (Al) mg/kg	46.1	ISO 16967/16968	Q
Antimony (Sb) mg/kg	< 0.100	ISO 16967/16968	Q
Arsenic (As) mg/kg	0.062	ISO 16967/16968	Q
Barium (Ba) mg/kg	31.80	ISO 16967/16968	Q
Cadmium (Cd) mg/kg	0.187	ISO 16967/16968	Q
Calcium (Ca) mg/kg	2142	ISO 16967/16968	Q
Chromium (Cr) mg/kg	< 1.00	ISO 16967/16968	Q
Cobalt (Co) mg/kg	< 0.100	ISO 16967/16968	Q
Copper (Cu) mg/kg	2.22	ISO 16967/16968	Q
Iron (Fe) mg/kg	62.5	ISO 16967/16968	Q



Prepared By:

David Robles - Laboratory Manager

Findings are based on the sample submitted. TP Inspection is accredited by the International Accreditation Service to ISO 17025. Specific test procedures included in TP Inspection's scope of accreditation are identified with a "Q". Outsourced parameters are designated with an "O". This report shall not be reproduced except in full without laboratory approval. All TP services are subject to our laboratory terms and conditions, a copy of which can be accessed through the following link:

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## Analytical Report

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RESTORATION FUELS, LLC  
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<b>Sample Date:</b>		<b>Purchase Order:</b>	

	<b>Dry Basis</b>	<b>Analytical Method</b>	<b>ISO 17025</b>
Lead (Pb) mg/kg	0.104	ISO 16967/16968	Q
Magnesium (Mg) mg/kg	431	ISO 16967/16968	Q
Manganese (Mn) mg/kg	88.2	ISO 16967/16968	Q
Mercury (Hg) mg/kg	< 0.010	ISO 16967/16968	Q
Molybdenum (Mo) mg/kg	0.757	ISO 16967/16968	Q
Nickel (Ni) mg/kg	< 1.00	ISO 16967/16968	Q
Phosphorus (P) mg/kg	132.7	ISO 16967/16968	Q
Potassium (K) mg/kg	1708	ISO 16967/16968	Q
Selenium (Se) mg/kg	< 0.050	ISO 16967/16968	Q
Silicon (Si) mg/kg	172.1	ISO 16967/16968	Q
Sodium (Na) mg/kg	< 10	ISO 16967/16968	Q
Tellurium (Te) mg/kg	< 1.00	ISO 16967/16968	Q
Thallium (Tl) mg/kg	< 1.00	ISO 16967/16968	Q
Tin (Sn) mg/kg	< 1.00	ISO 16967/16968	Q
Titanium (Ti) mg/kg	3.83	ISO 16967/16968	Q
Vanadium (V) mg/kg	< 0.100	ISO 16967/16968	Q
Zinc (Zn) mg/kg	17.72	ISO 16967/16968	Q

**Method Description:**  
Determination of Carbon, Hydrogen, and Nitrogen via High-Temperature Elemental Analysis.

**Method Code:**  
ISO 16948

**Method Description:**  
Direct determination on fuel via ICP-MS. Al, Ca, Fe, Mg, P, K, Si, Na, Ti, Ba, and Mn determined via ISO16967. As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Sb, V, Zn, Sn, Se, and Tl determined via ISO 16968.

**Method Code:**  
ISO 16967/16968

**Method Description:**  
Determination of Sulfur via High-Temperature Elemental Analysis.

**Method Code:**  
ISO 16994



Prepared By:

David Robles - Laboratory Manager

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