

# PCL Quality Control (QC) Lab



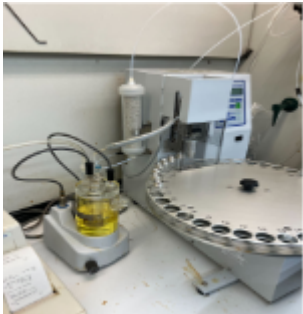
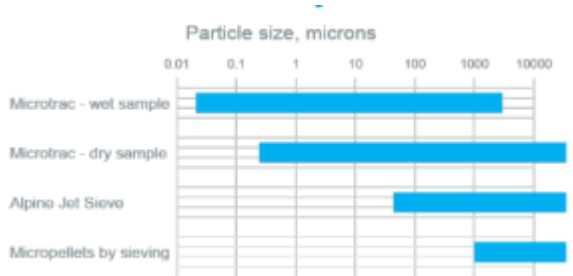
## Principle


Quality

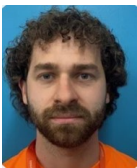

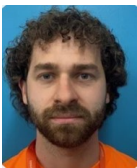

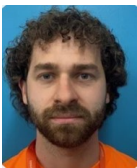

## Capabilities

- Ash, Color and Moisture Analysis
- Particle and Pellet Size Analysis
- Ash, Moisture, Color, Particle Size, Pellet Quality, BET

## Equipment

	Equipment Type	Information
	Ash Test By Microwave Furnace	<ul style="list-style-type: none"> <li>• <i>Standards:</i> ASTM D5630, ISO 3451</li> <li>• <b>AP-RD-ASH-ASTM</b> (700°C, 800°C, 850°C or 900°C)</li> <li>• <b>AP-RD-ASH-ISO</b> (600°C, 700°C, 750°C, 850°C or 950°C)</li> </ul>
	Color Measurement	<p>X-Rite Ci7800 and Ci7 Spectrophotometers</p> <ul style="list-style-type: none"> <li>• Color CIE L*a*b, CIE XYZ opaque samples: plaques (preferred), pellets and powder</li> <li>• Haze ASTM D1003 films or plaques</li> <li>• Gloss (calculated)</li> <li>• Transmittance ASTM D1003 films or plaques</li> <li>• Yellowness Index ASTM E313</li> </ul>
	Moisture Content By Karl Fischer	<ul style="list-style-type: none"> <li>• <i>Standards:</i> ASTM D6869 and ISO 15512B</li> <li>• Pellets, powder, parts</li> <li>• From low PPM to 100% of water</li> </ul>
	Particle and Pellet Size Analysis	

	Microtrac S3500	<ul style="list-style-type: none"> <li>• Laser Diffraction Particle Size Analyzer</li> <li>• Wet and Dry Sample</li> </ul>
	Alpine Jet Sieve	<ul style="list-style-type: none"> <li>• Quick and effective</li> <li>• Minimal static effect</li> <li>• Sieve sizes: 100, 120, 140, 170, 200, 270, and 325 mesh</li> </ul>
	Sieve Analysis for Micropellets	<ul style="list-style-type: none"> <li>• Sieves with pore sizes: 1.6, 1.4, 1.2, 1.0 mm</li> </ul>
	Pellet Quality	<ul style="list-style-type: none"> <li>• 250 ml Test Method for small black speck contamination.</li> <li>• 2000 ml Pellet Quality Test Method for all pellet quality items</li> <li>• Fines Inspection to quantify the weight % fines in a sample</li> </ul>

<b>Mission</b>	Quality Control is our mission.														
<b>Techniques</b>	<b>Quality Control</b> <ul style="list-style-type: none"> <li>•</li> </ul>														
<b>Team</b>	<b>Quality Control Lab - E1006</b> <table border="1" data-bbox="321 1318 1026 1728"> <thead> <tr> <th data-bbox="326 1318 477 1352"></th> <th data-bbox="482 1318 846 1352">Contact</th> <th data-bbox="850 1318 964 1352">Ext</th> <th data-bbox="969 1318 1026 1352">Office</th> </tr> </thead> <tbody> <tr> <td data-bbox="326 1358 477 1535">  </td> <td data-bbox="482 1358 846 1535">           Jacob McClain            QC Coordinator QC Lab         </td> <td data-bbox="850 1358 964 1535">770-772-8349</td> <td data-bbox="969 1358 1026 1535">E1006</td> </tr> <tr> <td data-bbox="326 1541 477 1728">  </td> <td data-bbox="482 1541 846 1728">           Katia del Risco Hernandez            QC Testing, Ash, Moisture, Particle Size Analysis         </td> <td data-bbox="850 1541 964 1728"></td> <td data-bbox="969 1541 1026 1728">E1006</td> </tr> </tbody> </table>				Contact	Ext	Office		Jacob McClain QC Coordinator QC Lab	770-772-8349	E1006		Katia del Risco Hernandez QC Testing, Ash, Moisture, Particle Size Analysis		E1006
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