Quadrant: L
Section: 18
Sublot: 1

**Laboratory Diary**

**General Description of Mix and Materials**

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Design</th>
<th>QC</th>
<th>CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mm (1&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>19 mm (3/4&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>12.5 mm (1/2&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>9.5 mm (3/8&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>4.75 mm (#4)</td>
<td>99</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>2.36 mm (#8)</td>
<td>76</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>1.18 mm (#16)</td>
<td>53</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>0.60 mm (#30)</td>
<td>36</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>0.30 mm (#50)</td>
<td>23</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>0.15 mm (#100)</td>
<td>15</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>0.075 mm (#200)</td>
<td>11.5</td>
<td>8.4</td>
<td></td>
</tr>
</tbody>
</table>

Binder Content (Plant Setting): 6.3
820 Calera Limestone: 69.0
Shorter Coarse Sand: 30.0

**Construction Diary**

**Relevant Conditions for Construction**

Completion Date: August 13, 2012
24 Hour High Temperature (F): 89
24 Hour Low Temperature (F): 61
24 Hour Rainfall (in): 0.00
Planned Sublot Lift Thickness (in): 0.8
Paving Machine: Blaw Knox

**Plant Configuration and Placement Details**

<table>
<thead>
<tr>
<th>Component</th>
<th>% Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder Content (Plant Setting)</td>
<td>6.3</td>
</tr>
<tr>
<td>820 Calera Limestone</td>
<td>69.0</td>
</tr>
<tr>
<td>Shorter Coarse Sand</td>
<td>30.0</td>
</tr>
<tr>
<td>Hyd Lime</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**As-Built Sublot Lift Thickness (in):** NA
**Total Thickness of All 2012 Sublots (in):** 0.8
**Approx. Underlying HMA Thickness (in):** 5.6
**Type of Tack Coat Utilized:** NTSS-1HM
**Undiluted Target Tack Rate (gal/sq):** 0.06
**Approx. Avg. Temperature at Plant (F):** 320
**Avg. Measured Mat Compaction:** 94.5%

**General Notes:**
1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and sublot (top=1);
2) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
3) Mixes not containing hydrated lime were run with either Gripper X antistrip or Evotherm Q1 warm mix additive at a 0.5% rate.
**Location:** Lee Road 159  
**Section:** 18  

**Pavement Preservation Treatment(s):** HMA FiberMat Cape

### Inbound (Northbound) Lane

- **Crack Sealing Method:** N/A  
- **Placement Date:** N/A  
- **Sealant Material Source:** N/A  
- **Sealant Material Type:** N/A  
- **Width of Sealed Crack:** N/A  
- **Target Rate (lbs / LF):** N/A  
- **1st Treatment Applied:** 89 FiberMat  
  - **Placement Date:** 7/17/2012  
  - **Emulsion Grade:** CRS-2L  
  - **Target Emulsion Rate (GSY):** 0  
  - **Meas. Emulsion Rate (GSY):** N/A  
  - **Aggregate Type:** Granite  
  - **Meas. Aggregate Rate (PSY):** Unknown  
- **2nd Treatment Applied:** N/A  
  - **Placement Date:** N/A  
  - **Emulsion Grade:** N/A  
  - **Target Rate (gals / SY):** N/A  
  - **Measured Rate (gals / SY):** N/A  
  - **Aggregate Type:** N/A  
  - **Meas. Agg. Rate (lbs / SY):** N/A  
- **3rd Treatment Applied:** N/A  
  - **Placement Date:** N/A  
  - **Emulsion Grade:** N/A  
  - **Target Rate (gals / SY):** N/A  
  - **Measured Rate (gals / SY):** N/A  
  - **Aggregate Type:** N/A  
  - **Meas. Agg. Rate (lbs / SY):** N/A

### Outbound (Southbound) Lane

- **Crack Sealing Method:** N/A  
- **Placement Date:** N/A  
- **Sealant Material Source:** N/A  
- **Sealant Material Type:** N/A  
- **Width of Sealed Crack:** N/A  
- **Target Rate (lbs / LF):** N/A  
- **1st Treatment Applied:** 89 FiberMat  
  - **Placement Date:** 7/17/2012  
  - **Emulsion Grade:** CRS-2L  
  - **Target Emulsion Rate (gals / SY):** 0  
  - **Measured Rate (gals / SY):** N/A  
  - **Aggregate Type:** Granite  
  - **Meas. Agg. Rate (lbs / SY):** Unknown  
- **2nd Treatment Applied:** N/A  
  - **Placement Date:** N/A  
  - **Emulsion Grade:** N/A  
  - **Target Rate (gals / SY):** N/A  
  - **Measured Rate (gals / SY):** N/A  
  - **Aggregate Type:** N/A  
  - **Meas. Agg. Rate (lbs / SY):** N/A  
- **3rd Treatment Applied:** N/A  
  - **Placement Date:** N/A  
  - **Emulsion Grade:** N/A  
  - **Target Rate (gals / SY):** N/A  
  - **Measured Rate (gals / SY):** N/A  
  - **Aggregate Type:** N/A  
  - **Meas. Agg. Rate (lbs / SY):** N/A

**General Notes:**
1) Sections 5, 7, and 12 were the only ones to be crack sealed. Crack sealing was the only treatment in section 5;  
2) Emulsion test results can be obtained by clicking the blue hotlinks in the "Emulsion Grade" data fields; and  
3) All construction information is in draft form until reviewed and approved by Track research sponsors.