Reclaimed Asphalt Pavement (RAP) Ownership

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March 14, 15 & 16, 2017
So - What is RAP?

• **Reclaimed Asphalt Pavement**

• Removed (mostly by milling) and/or reprocessed (Plant/Project Rejected) Waste Material or Asphalt Pavement Removal) pavement material containing asphalt and aggregate.
  – Generated when asphalt pavements are removed for reconstruction, resurfacing, or to obtain access to buried utilities.
FACT: More asphalt pavement is recycled in America than any other product.
FHWA Reports around 80 Million Tons of Asphalt Pavement is Recycled Yearly in the USA!
FACT: Recycling Asphalt Pavements Saves Taxpayers Approximately $2.8 Billion every year!
## How Much PennDOT RAP?

### RAP Metrics for CY 2016

<table>
<thead>
<tr>
<th></th>
<th>Tons of RAP Milled from Pavements</th>
<th>Tons of RAP Given to Contractor</th>
<th>Tons of RAP Retained by District</th>
<th>Estimated Tons of RAP To Be Milled in CY 2017</th>
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<tbody>
<tr>
<td>Total Statewide</td>
<td>1,956,593</td>
<td>1,506,181</td>
<td>450,412</td>
<td>1,671,530</td>
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<td>% of Total Tons of Rap Milled</td>
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<td>77.0%</td>
<td>23.0%</td>
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- Data taken from annual PennDOT survey
Amount of RAP Milled from Pavements

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<tr>
<th>District</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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2016 RAP Distribution

- RAP Milled from Pavements
- RAP given to CONTRACTOR
- RAP retained by DISTRICT
• PAG formed by DS Highway Administration 2015
• Members – PAPA, APC, PACA, ACPA, FHWA, ACEC, PTC, PennDOT
• PAG Picked “Top 10” Pavement Initiatives
• PAPA had 4 initiatives in “Top 10”
  – Long Life Asphalt Pavement
  – Reduced # of Asphalt Job Mix Formulas
  – Asphalt Pavement PWL Spec
  – Recycled Asphalt Pavement Issues
• Recycled Asphalt Pavement Issues
  – Perform a study to ascertain “What is the Highest and Best Use of RAP and Develop a Policy on Usage Priorities”
  
  – PAPA drafted Research Proposal “Optimizing the Utilization of Reclaimed Asphalt Pavements” – gave to PennDOT
• PennDOT RAP Study:
  – Consultant selected and study underway
  – Study - Policy to recycle RAP (highest and best use)
  – Six month study with monthly status meetings

• Statewide RAP Study:
  – Research other State DOT’s laws, policies, and procedures
  – Develop “Best Practices” document
  – Study Potential for Transport (economically feasible and practical)
  – Develop Final Report and Update/Implement Policies (as needed)
PennDOT Current RAP Policy

- SOL 495-17-02 “Milled Asphalt Pavement Material: Retainage, Plan and Use” January 26, 2017
  - Retainage – PennDOT Owns material
  - PennDOT may offer RAP to contractors
  - PennDOT must track all RAP
  - SRL & Stockpile Management
"SOL 495-17-04 “Milled Material Retainage and Use” March 10, 2017

- Contractor Retainage – Minimum, 15% of millings*
- Contractor Retainage – <200 tons millings generated

* SOL States – District should consider > 15% if higher RAP mix proposed by contractor
Questions?