2008 AASHTO
Subcommittee on Materials
Asheville, NC

FHWA Recycling Program

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FHWA – Office of Pavement Technology
Key Points Of FHWA Recycling Policy

- This is not a new policy – renewed focus with $ of materials sky rocking & GREEN
- Recycled materials should get first consideration in overall materials selection process.
- Recycling can offer engineering, economic and environmental enhancements.
- Life Cycle Cost benefits assessment is warranted.
- Restrictions prohibiting recycled material that are without technical basis should be removed.
Reasons for Highway Industry's to be pro-recycle

- Cost savings potential
- Life cycle cost and engineering performance enhancement
- Reduction in landfill impacts
- Stewardship of our environment
- Carbon Foot Print
Highway Industry Recycling

- **Clean up our own “Home”**
  - Asphalt & Concrete Pavement

- **Asphalt**
  - ETG for RAP
  - ETG for WMA
  - NAPA/AASHTO/FHWA RAP workshop IN & TX
  - In-place Asphalt Recycling Workshop
    - 1st Workshop held June 2008 - more to come

- **Concrete**
  - FHWA/RMRC & US EPA National Review on RCA
  - New TA - Use of RCP as Aggregate in Hydraulic-Cement Concrete Pavement
  - Concrete Pavement Technology Program (CPTP)
  - Building Partnership with Industry & U.S. EPA
  - 2 Lift Concrete Construction
FHWA Environmental Stewardship
Areas of Interest

- Warm Mix Asphalt
- Use of Alternate & Recycled Materials
- Surface/Stormwater runoff issues
- Green Highways Partnership program
  - Reuse & Recycling
  - Watershed-Driven Stormwater Management
  - Conservation and Ecosystem Protection
## FHWA Recycling Team

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<tr>
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<th>Bryan Cawley</th>
<th>Jason Dietz</th>
<th>Darrin Grenfell</th>
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<tr>
<td>Resource Center – East</td>
<td>UT Division</td>
<td>CA Division</td>
<td>Texas Division</td>
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<td>Charles Luedders</td>
<td>Steve Mueller</td>
<td>Robert Orthmeyer</td>
<td>Michael Rafalowski</td>
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<td>Central Federal</td>
<td>Resource Center,</td>
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<td>Pavement Technology</td>
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<td>Brian Smith</td>
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<td>UT Division</td>
<td>RD&amp;T Pavement</td>
<td>Office of Environment</td>
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Voluntary Program

Through partnering
- establish sound environmental practices – not necessary new, but better focused
- applied early in design/planning stages
- shared among the DOT/DNR partners.

GHP seeks to incorporate - into all aspects of the highway program
- environmental streamlining
- Environmental Stewardship
- recycling technology.

“Better Than Before” Theme!!!

Started in mid-Atlantic Region

Three Teams
- Recycle/Reuse
- Watershed-Driven Stormwater Management
- Conservation & Ecosystem Protection
Industry Resource Partners in Recycling

- AASHTO
- NAPA
- NCAT
- ARRA
- ACPA
- PCA
- U.S. EPA
- IRC
- RMRC
- NRMCA
- NOSAJ
- And there are more
Partners for helping the Reuse of Industrial By-Products

- The Industrial Resources Council (IRC)
  - American Coal Ash Association
  - Construction Materials Recycling Association
  - Foundry Industry Recycling Starts Today
  - National Council for Air and Stream Improvement
  - National Slag Association
  - Slag Cement Association
  - Rubber Manufacturers Association
Recycled Materials Resource Center

- National center for recycled materials technology
- Two University Center – (unofficially 3)
- Point of Contact for Research & Technical Information or whom to talk to
- Workshops and upcoming Webinars
- www.recycledmaterials.org
Status of RMRC TPF 1177 Pooled Fund

Red – No Thank You

Blue – Seven In the Pool - THANKS!!!
www.pooledfund.org

RMRC - TPF 1177

Please!! Add $$$

With N
In Closing – Thanks for the lend of your Ears!!

- **FHWA and our Partners**
  - Active participants and supporters of the Environmental Stewardship program.
  - Welcome more support and involvement from State DOTs and industry

- **YOUR State should participate in the RMRC pooled fund study!!**