Local Agency Use of Reclaimed Materials in Paving Projects

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Asphalt Pavement Association of Oregon
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- Used in Eugene for over 30 years.
- Standard Specification allows 30% RAP by weight.
• 30% by weight RAP results in ~25% binder replacement in typical Level 2 asphalt pavement.
• In 2013, ~13,000 tons of RAP was incorporated into Eugene paving projects.
Research:

- Literature review
- Plant visits and meetings with producers
2013 Alder Street Project

- Asphalt Binder Replacement of 35%
- Allowed RAP or a combination of RAP and RAS
- 5% max RAS by weight
- PG58-28 binder to compensate for stiffer mix
2013 Alder Street Project

- Contractor: Knife River
- Mix design: 1% RAS + 29% RAP
- Good compaction
- Value/engineering option
2013 Alder Street Project:

- Benefit of combining with shingles – more uniform and predictable AC content
- APAO Testing – comparing crack resistance of standard L2 to high binder replacement L2 mix.

**Increased Binder Replacement**
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