



### Is all RAP the Same?

Asphalt Content varies from 5.5% to 8.0% (Fines used in Micro)



### Is all RAP the Same?

- Within most RAP piles the aggregates will vary from low skid to high skid, non-polishing aggregates
- Low Skid - Low volume traffic, low speed (Residential, County)
- State Routes require high skid, non polishing aggregates (ADT greater than 3000-5000)
- Will require stockpile management and help from Agencies

### RAP Micro Surfacing

**What is RAP Micro Surfacing and Why is it Becoming More Popular?**

- RAP Micro is simply utilizing Reclaimed Asphalt Pavement in place of virgin aggregates
- With the aggregate sources being depleted, there's a need to turn to more sustainable resources

### RAP Contamination

- Ensure RAP piles are free of contaminants
- If screening only, make sure the RAP milling are separated from large sawcut pieces of HMA. Large pieces can damage the screens.
- Type of Aggregate

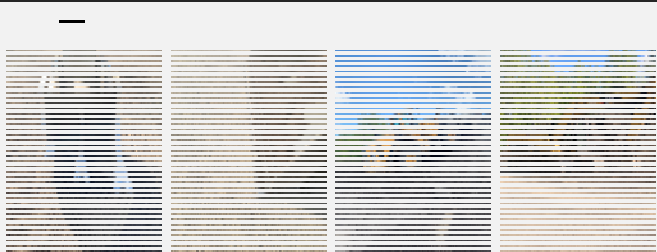
### RAP Contamination



### Screening Operation



### Processing RAP for Micro/Chip Seal



### Crushing and Screening RAP

#### Impact Crusher 320 SR Powerscreen

- Screen Deck - 5' x 11'
- 3/8" screen
- 200 tons per hour

#### Powerscreen Chieftain 1700

- Screen Deck - 5' x 17'
- 4mm screen
- 275-300 tons per hour



### Screening RAP



### 100% RAP vs. Blends



### 100% RAP vs. Blends

#### 100% RAP

- Material compacts in equipment
- Requires special equipment
- Mix build-up on spreader box and pugmill
- Single course
- Surface Damage (High Temps)

#### 50/50 Blends

- No Compaction
- No additional equipment required
- Minimal material build-up
- Multi-Layers (Heavier application rate)
- No Issues w/ high temps

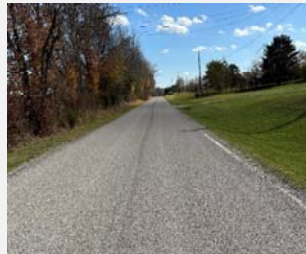
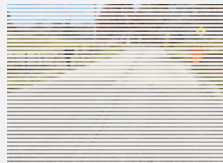
### RAP Demo: Anderson Twp, OH 2022

- Demo completed in May 2022 for Anderson Twp



### RAP Chip Seal: KYTC

- No Free Dust
- Coated Stone for better adhesion
- Dark finished surface



### RAP Micro: Anderson Twp, OH 2022

- Late September 2022
- Single Course 100% RAP Micro
- Application Rate: 17-18 lbs/sy



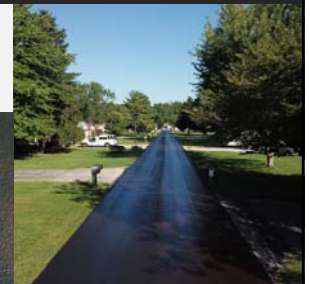
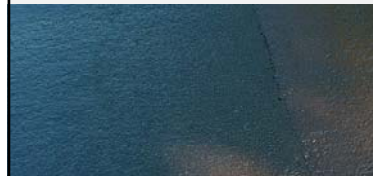
### RAP Cape Seal: Lancaster, OH 2021

- Completed our first RAP Cape Seal project in the City of Lancaster
- Lancaster supplied the RAP, Screened the material and applied the RAP Chip Seal
- The Micro Surfacing was applied at 20-22 pounds per square yard
- Emulsion Content was 11.6% (Typically 11.8%-12%)



### RAP Cape Seal: New Jasper, OH 2022

- Light Chip (#9 limestone)
- Surface Course- 100% RAP Micro 18 lbs/sy



RAP Micro: KYTC KY-10 Greenup County, KY 2023



RAP Micro Surfacing Video



RAP Micro: KYTC KY-10 2023



**THANK YOU!**  
Any Questions?



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RAP Micro: Violet Twp, OH 2024

- Single Course RAP Micro 50/50
- Application Rate: 18 lbs/sy

