# MONTANA'S SEAL COAT WARRANTY





Rocky Mountain West
Pavement Preservation Partnership
October 21, 2015
Bozeman, MT

#### Topics

- History of Warranty Spec. in MT
- Warranty Duration
- \* Warranty Admin. Guide
- Case Studies in MT
- Contractor Quality Control
- Contract Time Flexibility
- \* Questions

















#### Warranty History

- Contractor Involvement
- Cover Material- Meas. & Payment
- \* Section 409 Overhaul
- Meetings w/Bonding Companies
- Warranty Type





#### Warranty Duration

- \* 30- Day
- ♦ 60- Day
- Current Specification- 1<sup>st</sup> Wed. in Dec.
- Snowplow/Tire Chain Damage



#### Seal Coat Warranty Administration Guide

- Picture Guide
- Photo Tour- Summer of 2003
- Uniform Administration
- Monitoring and Documentation
- > Materials Deduct Examples
- Released w/Warranty Spec.- Spring 2004



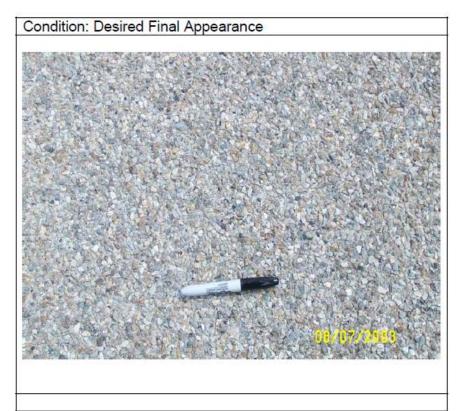
#### Montana Department of Transportation





2008 Seal Coat Warranty Administration Guide







Condition: Cover Material Loss Attributed to Insufficient Embedment Caused From Plant Mix Surfacing Segregation.



#### Comments:

- Water Poured on Plant Mix Surface Illustrates Effects of Segregation. Bituminous Materials Will Behave Similarly, Resulting in Insufficient Quantities Remaining on the Plant Mix Surface to Embed Cover Material.
- Segregated Plant Mix Surfacing Sections Should be Identified And Addressed Prior to Seal Coat Application.



- Cover Material Loss Attributed to Plant Mix Surfacing Segregation.
- Per Subsection 409.03.8 Warranty, Submit a Detailed Repair Plan to The Project Manager For Approval Within 14 Calendar Days of Notification of Required Repairs.
- This Condition is Unacceptable And Must be Repaired Prior to Final Acceptance.

#### Condition: Cover Material Loss- Snow Plow Damage



#### Characteristics:

- Condition Typically Presents Itself in a Transverse Fashion.
- Accompanied by Tell Tale "Chatter Mark" Effect.
- Damage Typically Located at, or Near, Roadway Crown, Quarter Line, And Shoulder.



#### Comments:

- Contributing Factors Include Plant Mix Surfacing Smoothness & Snow Plow Speed.
- Areas Determined as Having Damage Resulting From Snow Plow Activities Are Not Subject to Seal Coat Warranty Provisions.

#### Admin. Case Studies

- Effective Administration Cases
  - > MT 35- Polson- East
  - > I-90 Cardwell Hill
  - > I-15 Divide- N&S
- Less Desirable Cases
  - > US 20- Targhee Pass
  - > 30% Contractor / 70% MDT



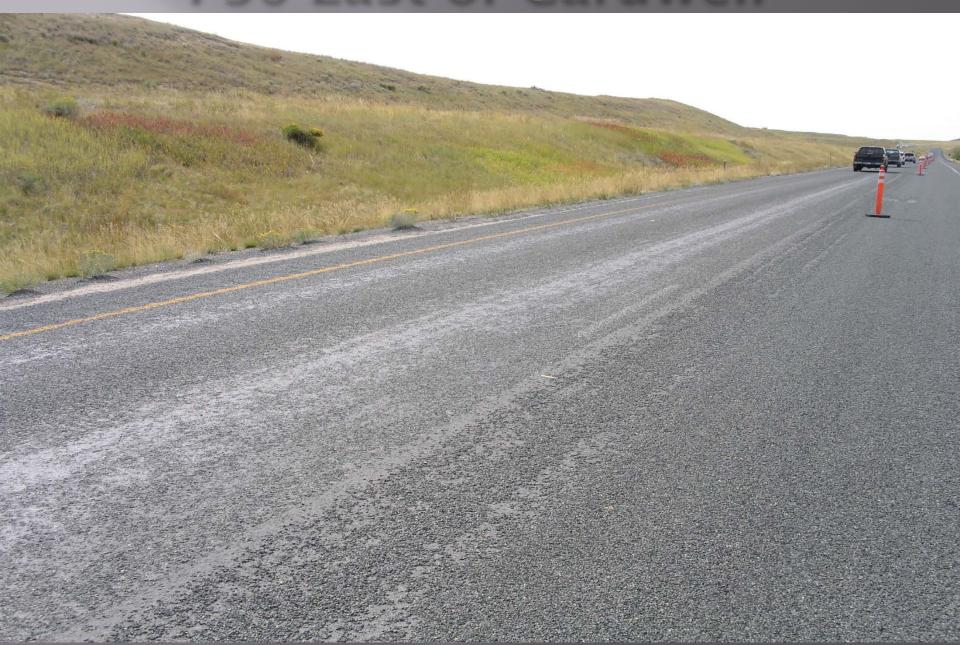
#### Polson-East







#### 1-90 East of Cardwell



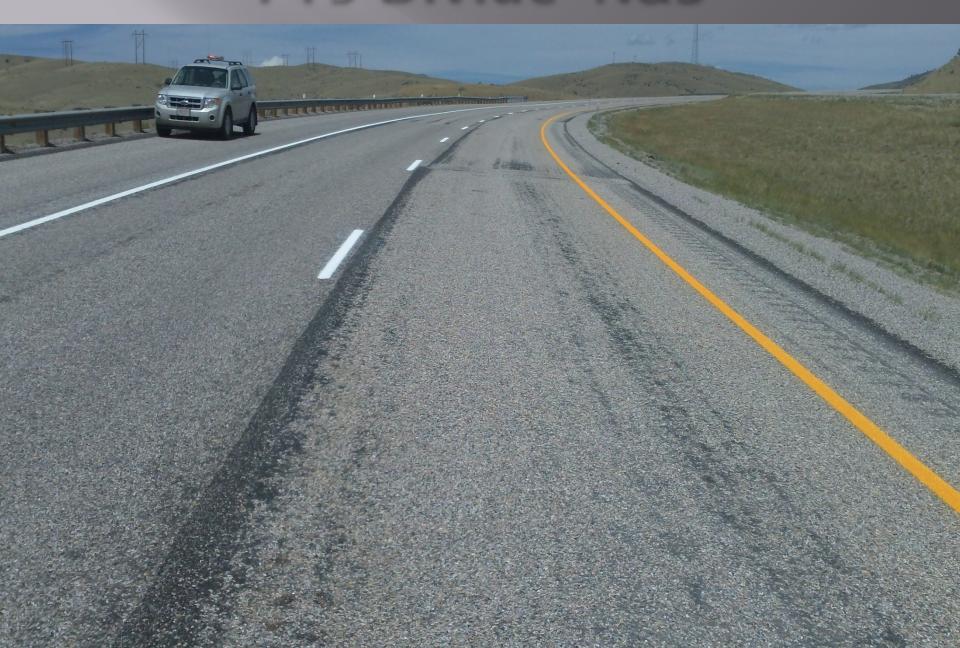
#### 1-90 East of Cardwell



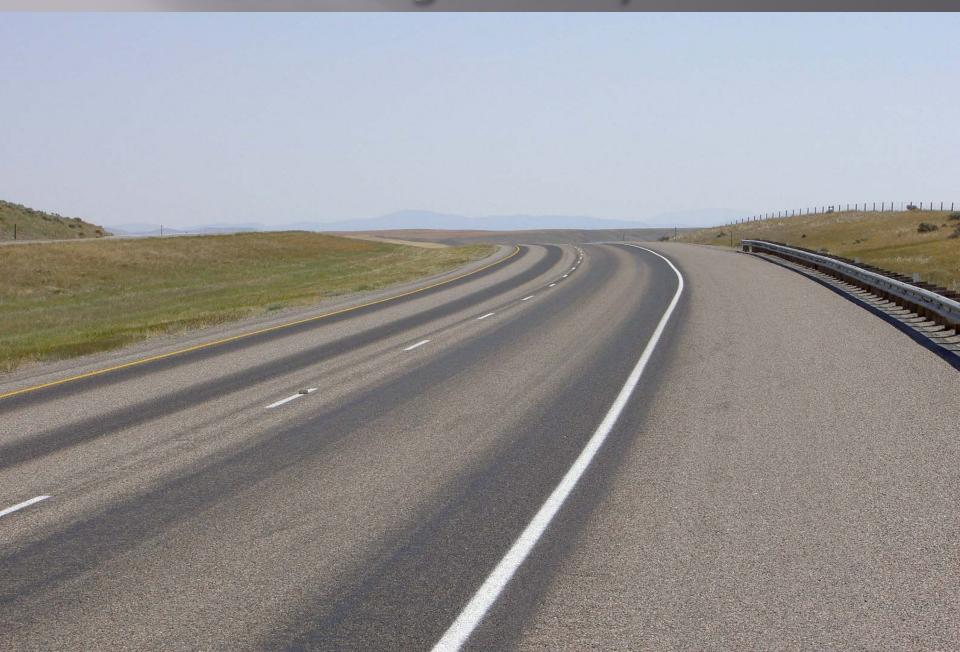
## I-15 Divide- N&S



### I-15 Divide- N&S



### 1-90 Milligan Canyon



#### 1-90 Milligan Canyon



### US 20- Targhee Pass



### US 20- Targhee Pass



#### Contractor QC

- Mix Design Process
- Surface Evaluation/Voids Structure
- Stockpile Moisture
- Equipment Calibration
- Surface Temps. and Weather
- Application Timing/Contract Time



#### **Contract Time**

- Seal Coat Season in MT
  - > May 1 to August 31
- Early and Late Season Flexibility
- \* Subsection 409.01.1 Contract Time



#### Questions?

William C. Fogarty
MDT Butte District
Construction Supervisor
(406) 494-9635
wfogarty@mt.gov

