

An Extended Haul in Nebraska

Hwy 14 ANTELOPE COUNTY, NEBRASKA – October 2008

Project Details:

Location:

Rt. 14, Nebraska from Neligh, NE to Elgin, NE

Agency:

Nebraska Department of Roads.

Contractor / Producer:

Knife River Midwest, LLC

Production:

Portable Parallel Drum Plant

Placement:

Equipment: Ingersoll Rand DD118 Steel vibratory compactor and Caterpillar CS-6340 Double Steel Roller.

Placement: Started in the North bound lanes of Rt. 14. The temperature of the mix out of the truck was 280°-260°F and 265°-235°F behind the screed.

During placement there was a 45 minute delay, leaving 8 trucks on standby. Once up and running placement continued with no scrap material and temperatures of 235°F behind the screed. There were no reports of lost workability or compaction.



WMA Tonnage:

8,400 tons

Temperature out of truck:

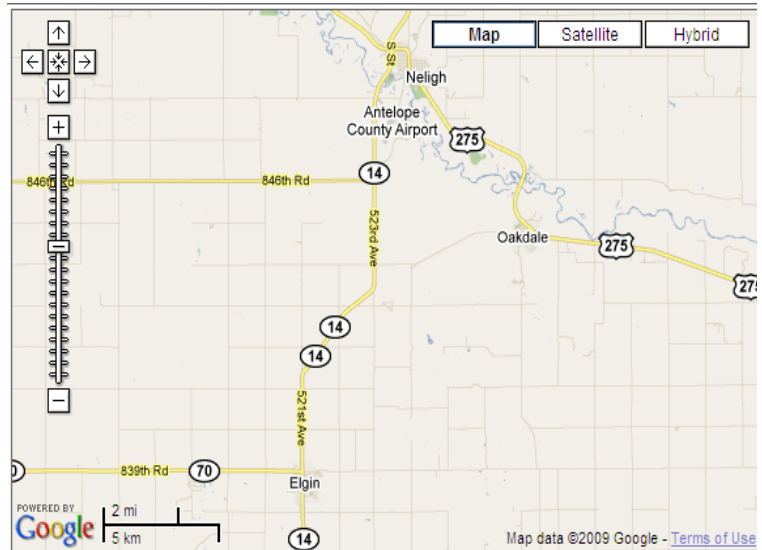
HMA	320°F
WMA	275°-280°F

Placement temperatures:

HMA	290°F
WMA	265°-235°F

Environmental Savings Vs HMA:

Air pollution:	24% reduction
Fossil Fuels:	18% reduction
Smog formation:	10% reduction



Why Use ADVERA® WMA:

- Compaction of warm mix was achievable at lower temperatures due to reduced viscosity
- Allows for paving in cooler weather extending the paving season
- It provides both a financial and environmental savings
- Advera® WMA lowers the measured air voids: improves compaction of the mixture