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CONTINUING THE DRIVE FOR CHANGE

Visalia, Calif., Maintenance Project Wins Project of the Year Award

The City of Visalia, Calif., is the winner of the 2015 *Project of the Year Award* from WRAPP, the Western Region Association for Pavement Preservation (WRAPP), formerly the California Chip Seal Association.

In 2015, this program encompassed over 1.7 million sq. yd. of surface treatment applications. Intermountain Slurry Seal, Elk Grove, Calif., was the prime contractor, and Talley Oil Co., Madera, was the subcontractor and applicator on the project. Cain Trucking, Tulare, handled off-site product storage and just-in-time delivery of pavement rejuvenator *Reclamite* emulsion for the project, shipping from Bakersfield to the Visalia area. Visalia's Jose Herrera, project supervisor, oversaw the project for the city, and public works director Norm Goldstrom, P.E., packaged the project based on PCI and historical findings.

In 2011, Visalia began exploring suitable pavement management systems (PMS) to utilize and monitor street pavement condition indexes (PCIs). The program chosen was *Lucity* software by IMS (Infrastructure Management Systems). The system was put into place and was ready for applications of various surface treatment methods and applications by 2013.

Generally pavement management programs do not include asphalt rejuvenators within their software due to lack of that knowledge by the program developers, and legacy utilization of historical chip seal or slurry wear course treatments. The City of Visalia goal was to maintain the high street PCIs shown by the PMS program with a lower cost treatment, extending pavement life four to five years.

Tricor Refining—producer of Reclamite asphalt rejuvenator—assisted with viewing the road network and placing ring tests for product absorption on the pavements in the program. The application rate varied between 0.07 to 0.10 gal per sq. yd. of the Reclamite emulsion diluted with water 2:1. The job was to maximize the absorption of the rejuvenator, then allow it to cure for a minimum one to two hours, followed by sanding and mechanical sweeping within the same day or within a 24 hour period.

Within the rejuvenator seal project specification was the performance requirement to meet minimum changes in penetration and viscosity and/or changes in the dynamic shear rheometer testing, which measures the stiffness of the asphalt or the complex modulus “G”.

Penetration and viscosity testing utilizing Caltrans test methods and DSR testing showed substantial improvement in penetration and viscosity, leading to reduced stiffness of the binder retarding the aging process. That improvement was in the 1200 to 1600 percentile range.



Norm Goldstrom P. Eng., public works manager for Visalia, Calif., and Jim Brownridge, Tricor Refining, Bakersfield are presented plaques for Street Maintenance Project of the Year for the city's asphalt rejuvenation work

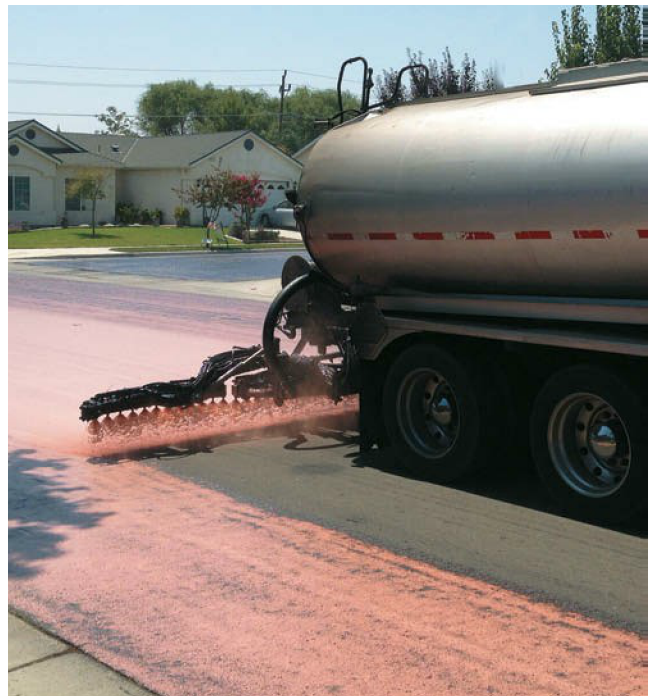


IMAGE CREDITS: TRICOR REFINING

Award-winning Visalia program encompassed over 1.7 million sq. yd. of surface treatment application in 2015

The City of Visalia and Norm Goldstrom's engineering group have increased PCIs on Visalia streets, and raised the level of public awareness to pavement preservation through an excellent in-house media promotion. The city's plans to continue utilizing preservation methods promoted through the California Chip Seal Association, now WRAPP. 