

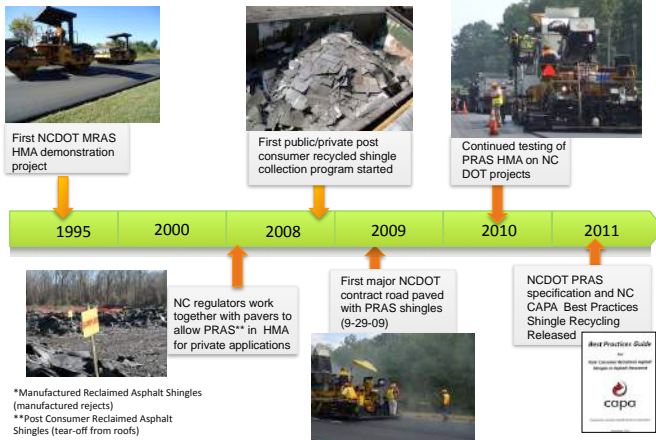
Getting to YES: How Government & Industry Worked Together to Get Shingles Approved for Use in Asphalt Pavements

2014 North Carolina Sustainable Roadway Materials Workshop
September 17, 2014

North Carolina Department of Environment and Natural Resources

Sherry Yarkosky
Market Development Specialist
RBAC

Timeline: Asphalt Shingle Recycling in NC HMA Production



- 1995:** First NCDOT MRAS HMA demonstration project
- 2000:** NC regulators work together with pavers to allow PRAS** in HMA for private applications
- 2008:** First public/private post consumer recycled shingle collection program started
- 2009:** First major NCDOT contract road paved with PRAS shingles (9-29-09)
- 2010:** Continued testing of PRAS HMA on NC DOT projects
- 2011:** NCDOT PRAS specification and NC CAPA Best Practices Shingle Recycling Released

*Manufactured Reclaimed Asphalt Shingles (manufactured rejects)
**Post Consumer Reclaimed Asphalt Shingles (tear-off from roofs)

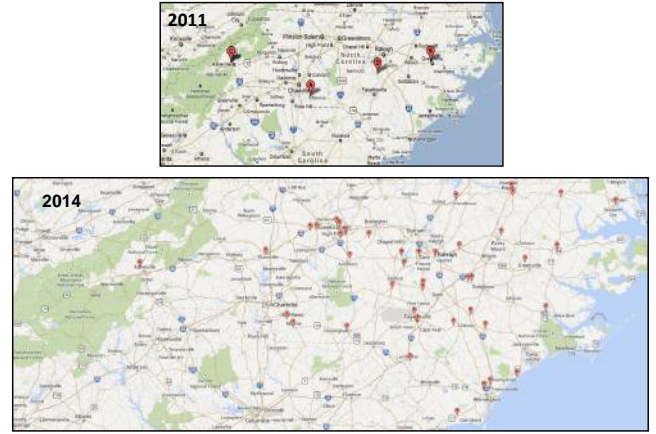
Best Practices Guide for the Manufactured Reclaimed Asphalt Shingle Recycling Program
capa

Where Are We in 2014?

- On-going success with pavers using PRAS
- Increased competition for supply of post-consumer recycled shingles
- Learned a few things.....



PRAS Markets 2011 vs 2014





For More Information:



<http://portal.ncdenr.org/web/wm/sw/shingles>



<http://www.p2pays.org/dmrm/start.aspx>

Sherry Yarkosky,
Sherry.yarkosky@ncdenr.gov
Phone: 919-707-8133