



VTrans Recycled Materials Activities



VTrans Recycled Materials Working Group
Includes Research, Construction and Materials, Project Delivery and
Agency of Natural Resources Staff

Introduction

Motivated by the Architectural Waste Recycling Law (Act 175), the Recycled Materials Working Group has met since Spring 2016 to discuss how recycled materials can be used in our roadway projects. Materials include: Asphalt Shingles (RAS), Shredded Tires (TDA), Glass (sand borrow and foam aggregate), Compost



Scrap Shingles and Processed RAS

Activities Include

- Continued advocacy through presentations: 2 Legislature, 4 RPC Transportation Advisory Committees, 5 Road Foremen, 1 Select board
- RAS use as unbound shoulder in 11 VTrans Projects since 2016.
- Trials of Gravel/RAS surface mix used on VT65 in Brookfield, and new tests in Pownal and Shaftsbury
- Collaborate with CSWD on development of recycled glass as replacement of sand borrow
- Working to place TDA in underdrains for upcoming 2019 project.
- Shredded Tires for Underdrains draft work plan for a Summer 2019 construction
- Discussions with two processed glass foam aggregate vendors

RAS in Town Gravel Roads

The Recycled Materials Working Group (VTrans/ANR) is working with Vermont Local Roads to encourage towns to use RAS in the surface course of town gravel roads. Efforts include:

- Field trips to Myers RAS processing facility and storage at Whitcomb in Colchester
- Presentations and newsletter article
- Recruitment of towns. To date we have agreements with Pownal (road constructed August 2018) and Shaftsbury. We're eager to recruit others to use a 20% RAS/80% gravel mix or a "pile" of RAS to use with their own material
- We will monitor the roadways using RAS before, during, and after construction



VLR Newsletter

Next Steps

Next steps for the Recycled Materials Working Group include:

- Recruiting more towns to use RAS in their gravel roads
- Monitoring the use of shredded tires in underdrains (two projects constructed in 2018; work plan approved 2017)
- Monitoring the use of processed glass foam aggregate from new plant in St. Albans in roadway projects
- Finding uses that are similar cost replacement or beneficial to include or both