

# Recycled Glass in Highway Construction

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# Processed Glass Aggregate – Overview

## Agency of Transportation – Nick Van Den Berg, P.E., Materials Manager

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- **Glass Recycling**

- Challenge
- Universal Recycling Law – Act 148

- **Processed Glass Aggregate (PGA)**

- History with VTrans
- National Standards
- Regional Standards

# Processed Glass Aggregate – Opportunity

## Agency of Transportation – Nick Van Den Berg, P.E., Materials Manager

- **Unbound Aggregates**

- Engineering properties
- Economy

- **Utilization**

- Availability of resources
- Cost of materials
- Past practice

### 2016-2021 VTrans Unbound Aggregate Quantities

Item Name	Unit of Measure	Total Quantity Bid
SAND BORROW	CY	156,214
SUBBASE OF GRAVEL	CY	5,455
SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	CY	4,993
SUBBASE OF CRUSHED GRAVEL, FINE GRADED	CY	12,137
SUBBASE OF DENSE GRADED CRUSHED STONE	CY	324,943
Grand Total		<b>503,742</b>

# Processed Glass Aggregate – Initiatives

## Agency of Transportation – Nick Van Den Berg, P.E., Materials Manager

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- **VTrans**

- Specification updates

- Material Acceptance Program updates

- UVM Research

- *‘Evaluation of processed glass aggregate for utilization in transportation projects as a sand borrow’*

- Funded through the Transportation Infrastructure Durability Center

- Kick-off meeting scheduled for March 16, 2021

- Phase 1 completion date; August 31, 2022

- Partnerships





Thank you

