

## **WA Commingled Improvements Project: Southwest Region Workgroup**

### **Glass Summit**

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November 2, 2009 9:00 am – 4:00 pm

Ecology HQ, Lacey (Auditorium); Ecology CRO, Yakima (204-A); Ecology ERO, Spokane (1-SW-11)

Contact: Shannon McClelland, 360.407.6398, [Shannon.McClelland@ecy.wa.gov](mailto:Shannon.McClelland@ecy.wa.gov)

#### **Meeting Objectives**

1. Share information from each sector of the residential recycling system – curb, MRF, manufacturer – on how glass is prepared, collected, processed, and used as a final product
2. Hear information on life cycle assessment for glass end-use
3. Determine what our current capacity/infrastructure/market(s) is for glass
4. Determine at what quality and quantity glass is being recovered for reuse and barriers to increase both

#### **Agenda**

9:00 – 9:05 Welcome & Introductions – *Shannon McClelland, WA Dept of Ecology*

9:05 – 9:15 Review of Agenda, Meeting Objectives, and Opening Remarks – *Shannon*

9:15 – 9:45 Life Cycle Analysis for Glass End-use Applications – *Peter Spendelow, Oregon Dept of Environmental Quality (Based on data from David Allaway, OR DEQ)*

9:45 – 10:45 Collection Issues

- Review messaging to public on material preparation & types for residential collection programs in the SW Region – *Shannon*
- Singlestream vs. separate glass collection – Which recovers more glass and what are the tradeoffs? – *Rick Hlavka, Green Solutions*
- Factors influencing Seattle's decision to commingle glass – *George Sidles, Seattle Public Utilities*

10:45 – 11:00 Break

11:00 – 12:00 Processing Issues

- Discuss singlestream glass from the MRF perspective – *MRFs*
- Review paper industry issues with singlestream glass – *Jay Simmons, NORPAC; Ed Tolan, Nippon*
- Processing issues for mixed cullet – *Charlie Porta, eCullet*

12:00 – 1:00 Lunch (on your own)

*(Agenda continues on reverse)*

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### **Agenda cont.**

1:00 – 3:00 End-user Issues

- Discuss glass from the end-use perspective: Containers  
– *Howard Coleman, Owens-Illinois*
- Discuss glass from the end-use perspective: Aggregate  
– *John Specht, Concrete Recyclers, Inc.*  
– *Lloyd Enterprises, Inc*
- Discuss glass from the end-use perspective: Fiberglass  
– *John Hutchinson, Owens-Corning Insulating Systems, LLC*
- Discuss glass from the end-use perspective: Other applications  
– *Don and Chris Freas, TriVitro Corp.*

3:00 - 3:30 Discuss How the System Fits Together Environmentally and Economically

– *Shannon & All*

3:30 - 3:45 Review Barriers to Increase Glass Recycling and Diversion – *Shannon & All*

3:45 – 4:00 Wrap Up & Adjourn – *Shannon*

### **Questions to be answered for Glass:**

For Local Governments and Collectors

- What is the messaging for preparation?
- Special/extra messaging?
- Collected the same as other materials?
- Does it provide revenue for your program or is it only a cost?
- Percent of total materials collected in program?

For Processors

- Percent of total incoming?
- Quality of incoming?
- Problems in processing?
- Areas that could be improved from MRF perspective?
- Percent of residual?
- Rate the market: Strong, medium, weak for local and export?
- High value commodity?
- Easy to move?

For Manufacturers/End users

- Prohibitives?
- Outhrows?
- Yield loss?
- Capacity/ Need to use more?
- Problems with your equipment?
- Value in using vs. other virgin feedstock (financial and environmental benefits ?
- Final product?