

MassDEP C&D Subcommittee

Via Zoom Webinar

May 25, 2022

10:00 AM to 12:00 PM



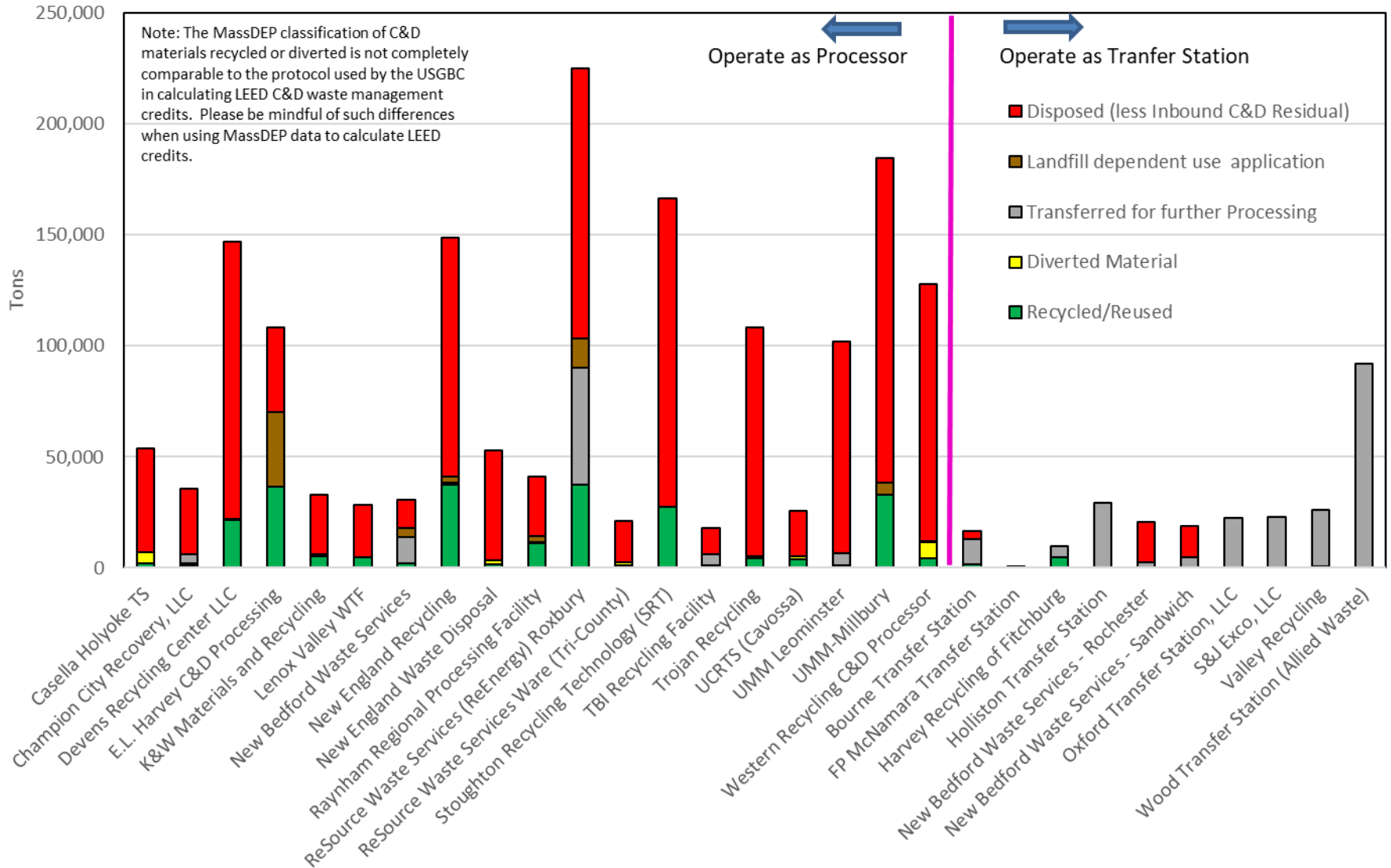
Agenda

- Welcome/Introductions
- Summary of CY2021 C&D annual report data
- C&D Facility MPS Status
- C&D Industry Updates
- C&D Program Updates

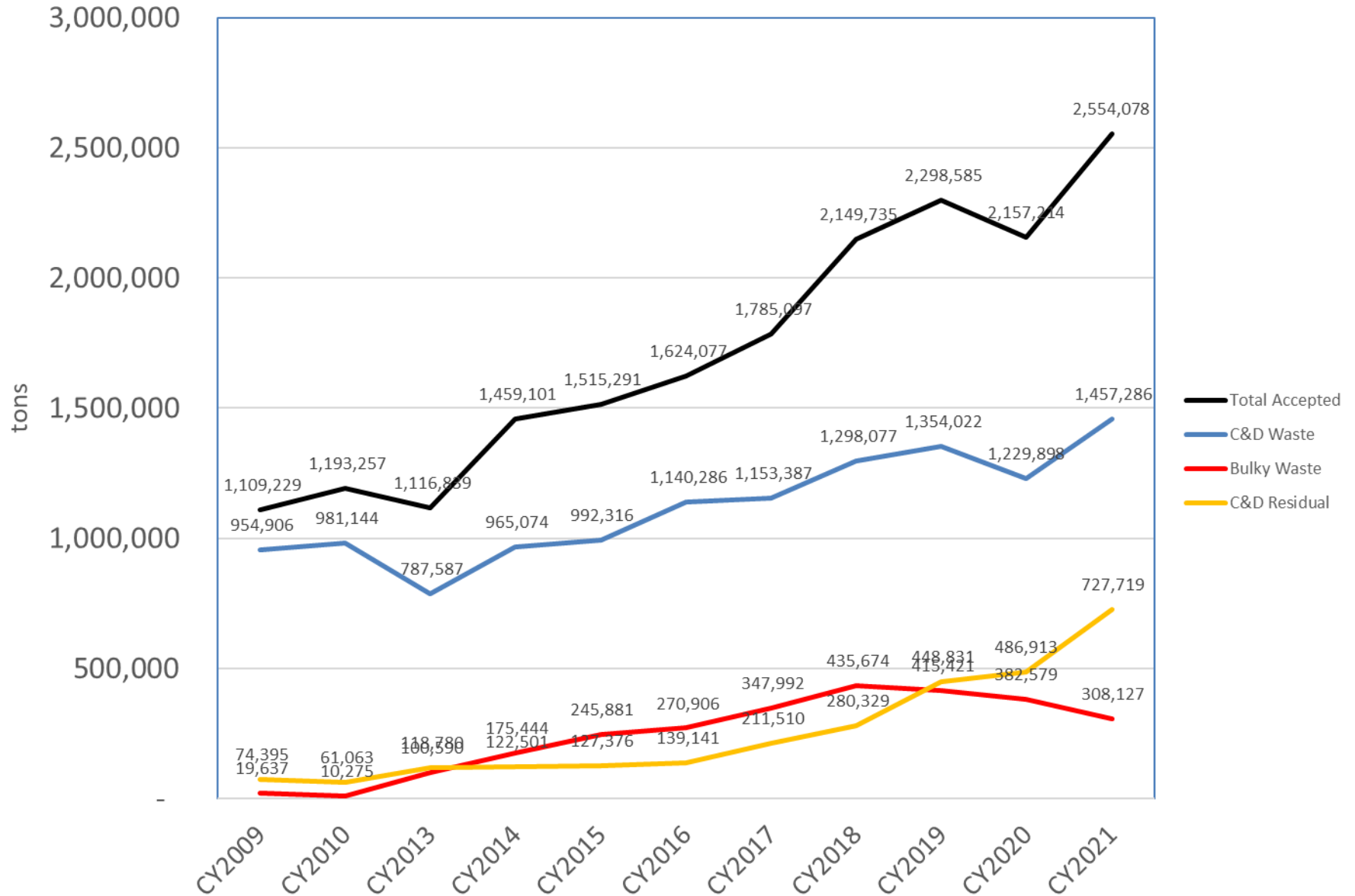
SUMMARY OF CY2021 C&D ANNUAL REPORT DATA

- Massachusetts C&D Handling Facilities - Disposition of C&D Materials Handled by Facility in 2021*

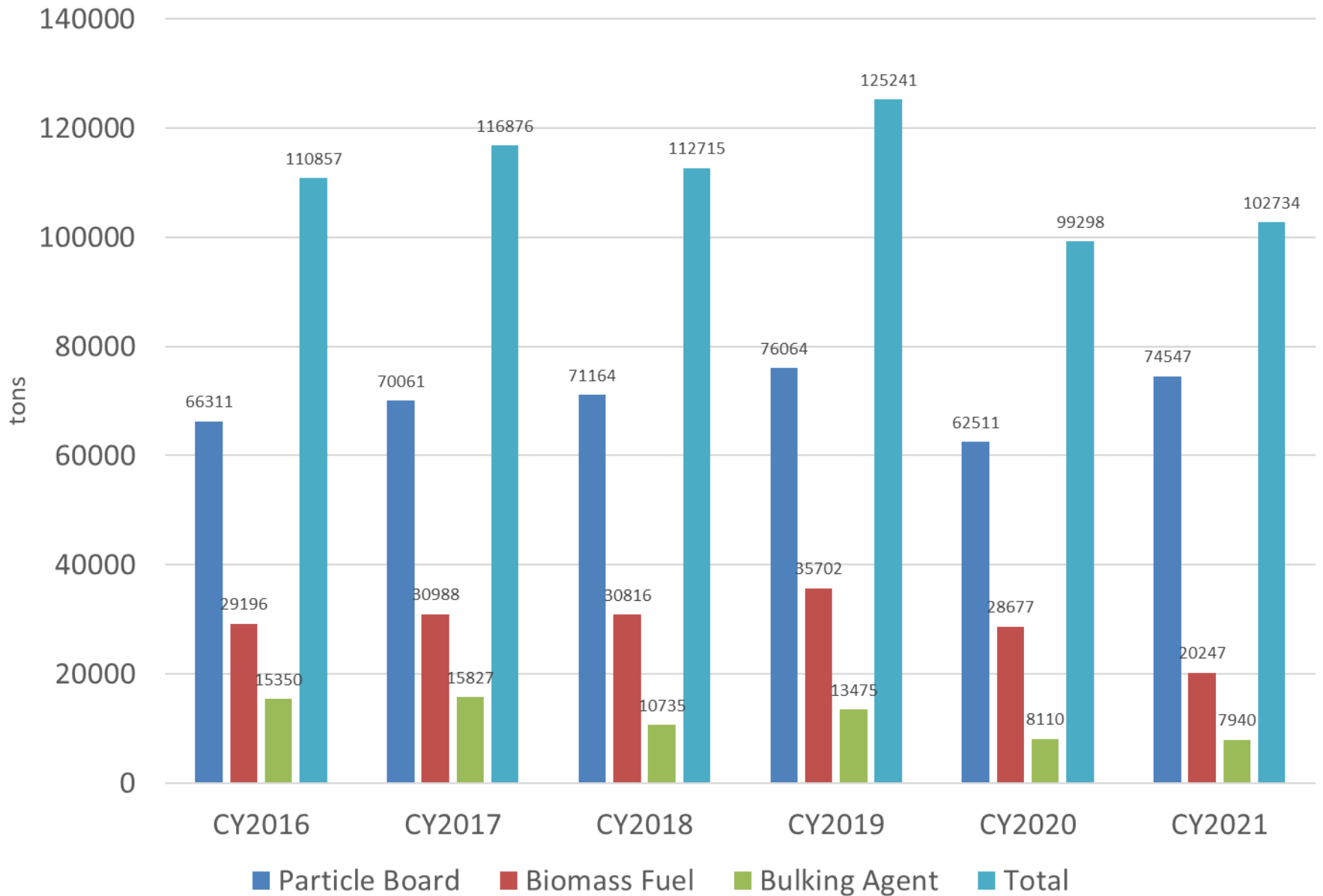
*Quantities are "as reported" to MassDEP in CY2021 C&D Annual Facility Reports



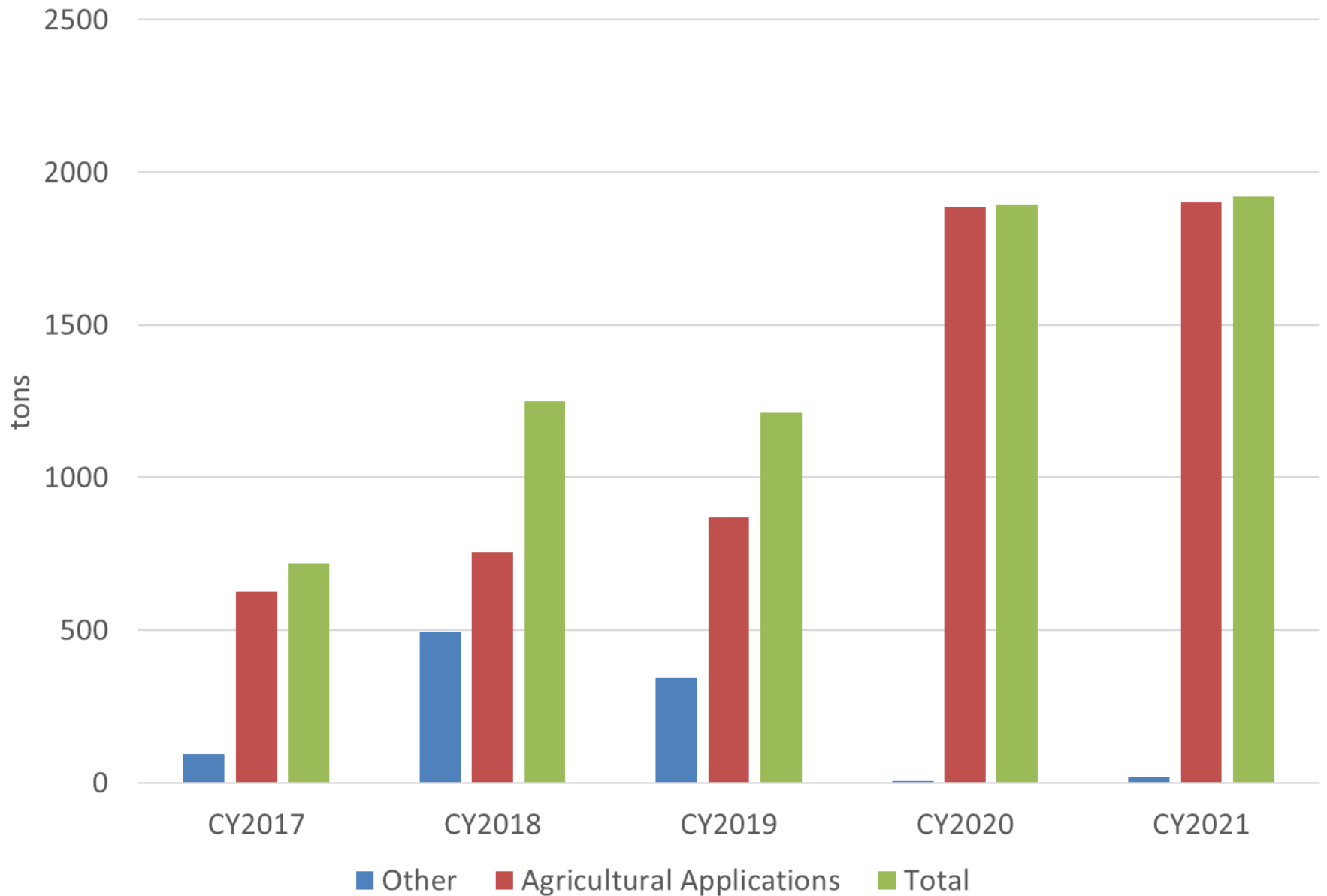
Trend of Inbound Material Accepted Over Time



Wood Products Trend Chart 2016-2021



Clean Gypsum Wallboard Separation Trend Chart 2018-2021



25 May 2022

C&D FACILITY MPS STATUS

C&D Minimum Performance Standard

Goals and Objectives

Simply put...

Ensure that every ton of C&D debris is processed at an MPS-compliant facility

- Level the playing field for all facilities
- Recover maximum value from recyclable/re-usable materials
- Separate all waste ban materials
- Minimize tonnage sent for disposal – “Reduce Leakage”

C&D MPS Performance Criteria

- C&D MPS performance criteria:
 1. Achieve a 15% Process Separation Rate (PSR) minimum threshold;
 2. Demonstrate that all banned materials are separated to the greatest extent possible.
- Failure to satisfy either performance criterion constitutes a failure to comply with Waste Ban Regs and Waste Ban Compliance Plan
 - Cannot dispose or arrange for disposal of any C&D materials

Note: The MPS performance criteria are not applicable to a C&D Transfer Station that operates as follows:

- Transfers all C&D materials to an MPS-compliant facility for further processing
- Separates clean gypsum wallboard and Zero-Tolerance waste ban items prior to transfer

Summary of C&D Facility MPS Status based on: CY2021 Operating Data & 2021/2022 Monthly Compliance Reports

MPS Status	C&D Processors	C&D Lg. Transfer Stations
MPS Compliant as Processor – Meet both Performance Criteria	7	3
Conditionally Compliant as Processor: installed new process line	2	2
Conditionally Compliant as Processor: made oper'l enhancements	2	3
MPS Compliant as TS - transfer all C&D to MPS compliant processor	1	6
Conditionally Compliant as TS: plan to transfer all C&D to MPS compliant processor	0	3
No longer accept C&D	1	0

MPS Compliant as Processor

Facility	Crit. #1 (PSR ≥ 15%)	Crit. #2 (Separate WB Mat'ls)	Overall MPS Compliance	Comments
Devens Recycling, Ayer	Yes	Yes	Yes	
E.L. Harvey C&D, Westborough	Yes	Yes	Yes	
Lenox Valley WTF, Lenox	Yes	Yes	Yes	
New England Recycling, Taunton	Yes	Yes	Yes	
New England Waste Disposal, Taunton	Yes	Yes	Yes	Made operational improvements in 2H21 (separate sorting building, and use of mobile picking platform)
Raynham Regional Processing	Yes	Yes	Yes	
ReSource Waste Services Roxbury	Yes	Yes	Yes	
Stoughton Recycling	Yes	Yes	Yes	
UMM-Millbury	Yes	Yes	Yes	
Upper Cape Regional TS, Sandwich	Yes	Yes	Yes	

Conditionally MPS Compliant as Processor

Facility	Crit. #1 (PSR ≥ 15%)	Crit. #2 (Separate WB Mat'ls)	Conditional MPS Compliant	Comments
TBI, North Andover	No	No	Yes	Installed new process line ; completed May-2022; awaiting approval to operate from Town and MassDEP; anticipate full MPS compliance.
Trojan Recycling, Brockton	No	No	Yes	Installed new process line ; completed Mar-2022; performance improving but not yet achieving PSR ≥ 15%; anticipate full MPS compliance.
UMM-Leominster	No	No	Yes	Installed new process line ; completed Dec-2021; started achieving full MPS compliance in Feb-2022.
Western Recycling, Wilbraham	No	Yes	Yes	Installed new process line ; completed Feb-2021; started achieving full MPS compliance in Oct-2021.

Conditionally MPS Compliant as Processor

Facility	Crit. #1 (PSR \geq 15%)	Crit. #2 (Separate WB Mat'ls)	Conditional MPS Compliant	Comments
Casella-Holyoke TS	No	Yes	Yes	Made operational improvements to achieve PSR \geq 15% in latter months of 2021, and all subsequent months
Champion City Recovery, Brockton	No	Yes	Yes	Made operational improvements to achieve PSR \geq 15% in latter months of 2021, and all subsequent months (primarily accept C&D Residuals)
K&W Recycling, West Springfield	No	Yes	Yes	Made operational improvements to achieve PSR \geq 15% beginning CY2022
New Bedford Waste Services – New Bedford Division	No	No	Yes	Attempted to make operational improvements (Re-Crete line for Fines); new ownership (Jan-2022); developing compliance plan with MassDEP-SERO.
ReSource Waste Services Ware	No	Yes	Yes	Made operational improvements but achieved inconsistent PSR; changed permitted oper. class. to TS (May-2022); and henceforth will primarily accept C&D Residuals.

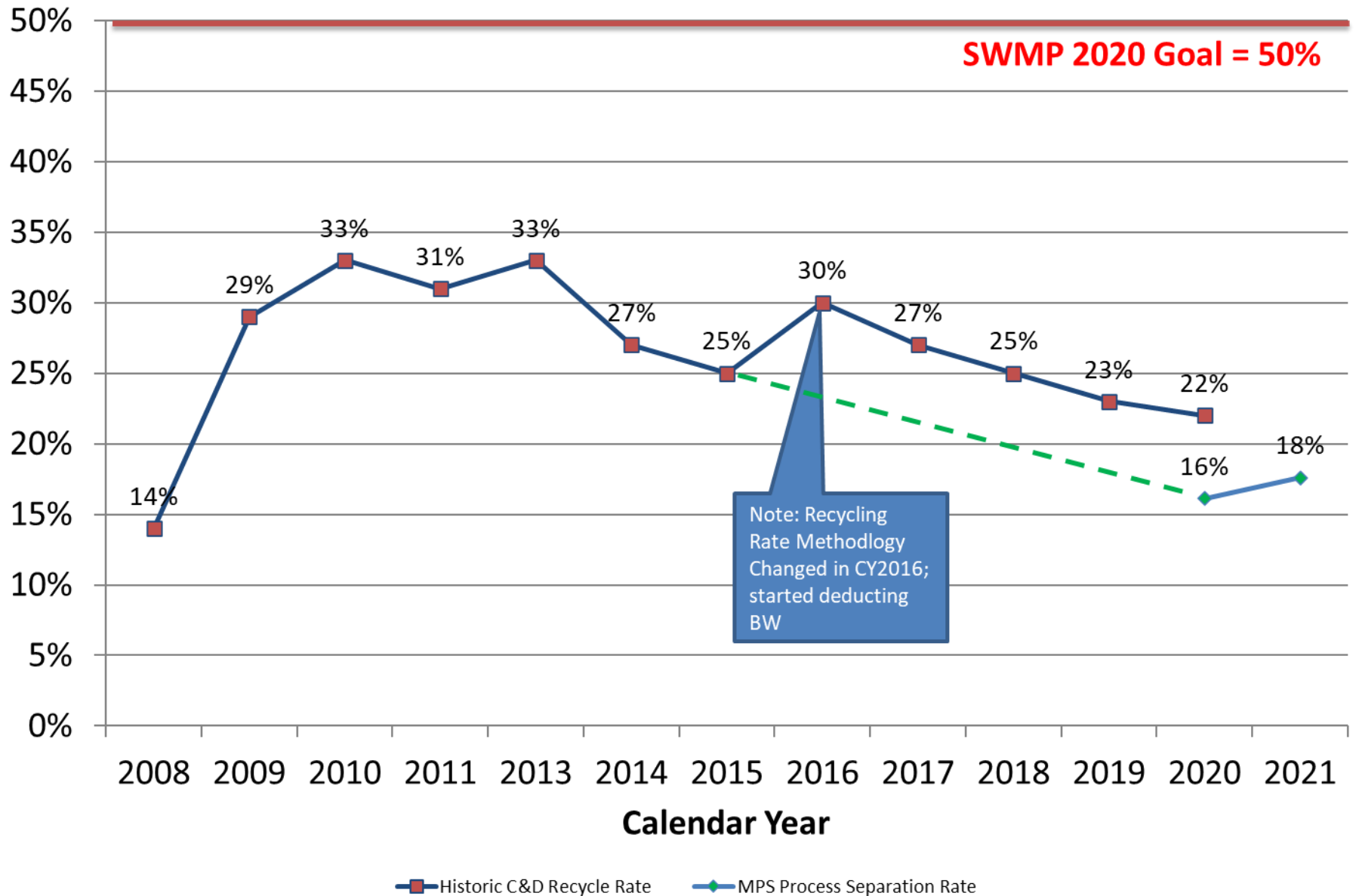
MPS Compliant as C&D Transfer Station

Facility	Transfer all C&D materials to MPS compliant facility for further processing	Comments
F.P. McNamara, Springfield	Yes	
Harvey Recycling, Fitchburg	Yes	
Holliston TS	Yes	
Oxford TS	Yes	
S&J Exco, Dennis	Yes	
Valley Recycling, Northampton	Yes	
Wood TS, Peabody	Yes	

Conditionally MPS Compliant as C&D Transfer Station

Facility	Transfer all C&D materials to MPS compliant facility for further processing	Comments
Bourne TS	No	Simultaneously with ATO permit renewal, developing MPS compliance plan with MassDEP-SERO
NBWS-Rochester Division	No	New ownership (Jan-2022); developing compliance plan with MassDEP-SERO.
NBWS-Sandwich Division	No	New ownership (Jan-2022); developing compliance plan with MassDEP-SERO.

C&D Industry Recycle Rate/Process Separation Rate Trend Chart



C&D MPS Resources

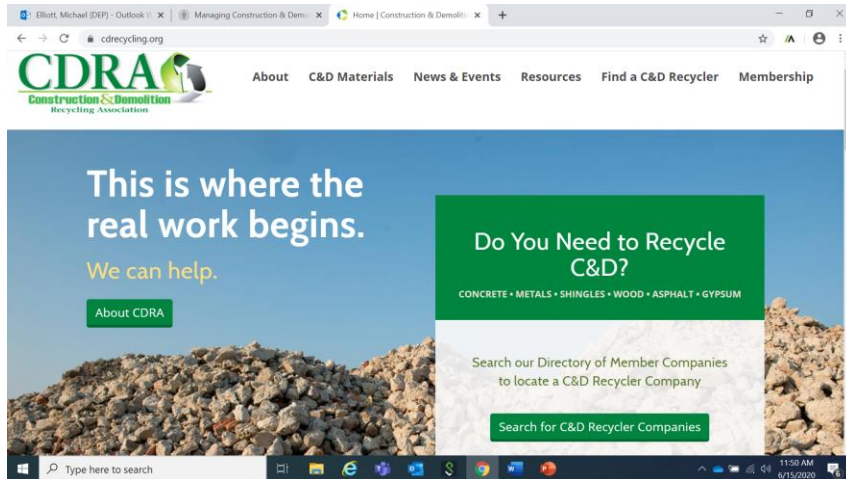
The following resources can be found on the MassDEP webpage...

- Minimum Performance Standard for C&D Handling Facilities: <https://www.mass.gov/doc/minimum-performance-standard-for-construction-demolition-handling-facilities/download>
- C&D MPS Q&A Guidance: <https://www.mass.gov/doc/frequently-asked-questions-faq-minimum-performance-standard-for-cd-handling-facilities/download>
- Status of Facility Compliance with MPS (May 2022): <https://www.mass.gov/doc/status-of-facility-compliance-with-cd-minimum-performance-standard-may-2022/download>

C&D INDUSTRY UPDATES

CDRA National Perspective

by Executive Director: Bill Turley (turley@cdrecycling.org)



<https://cdrecycling.org/>

- SEC Climate Impact Reporting Requirements
- Environmental Justice
- Update on LEED recycling credits
- Maine Out of State Waste Ban

C&D Industry Updates

- Wood market capacity
 - PRE-Greenleaf Biomass Boiler semi-annual maintenance shutdown in April and October
 - Seasonal inventories at Skowhegan wood storage yard that supplies Tafisa
- Any other updates?

C&D PROGRAM UPDATES

New Waste Disposal Bans

- Effective date of new bans is 11/01/2022
- Includes:
 - Mattresses,
 - Textiles, and
 - reduced Food Waste threshold (from 1 ton to ½ ton per week)
- Affects all Solid Waste Handling facilities including C&D facilities

Mattress Recycling Specification

- Must recover all component materials for re-use end-markets:
 - Wood
 - Metal
 - Fabric
 - Foam
- Minimum 75% recovery by weight*
- Only exception to waste ban
 - Heavily contaminated or damaged mattresses
 - Need to document quantity and condition of mattresses disposed

* State Contract Vendor Specification

Waste Ban Compliance Plans

- Key Date
 - **August 1, 2022 – revised waste ban compliance plans due**
 - Non-C&D Transfer Stations – submit certification form
 - Other solid waste facilities (e.g., C&D Facilities) – **submit revised waste ban compliance plan with SW 45 permit application**
- Will send Letter to solid waste facilities – May 2022

Solid Waste Facility Guidance

- **Waste Ban Guidance**

- <https://www.mass.gov/guides/massdep-waste-disposal-bans#-solid-waste-facility-compliance-assistance->

- Added new waste ban materials
- Revised definition for single polymer plastic
- Modified protocols for facility monitoring, inspections & response to failed loads
- **Connected with C&D Minimum Performance Standard**
- Can submit with other application prior to August 1

C&D Bulky Waste Study

- Address industry concerns about including Bulky Waste in MPS Process Separation Rate Calculation
- Obtain clear data on percent of recoverable materials in bulky waste loads
- MassDEP engaged well-respected, independent consultant team – collaborative effort by CET & MSW Consultants

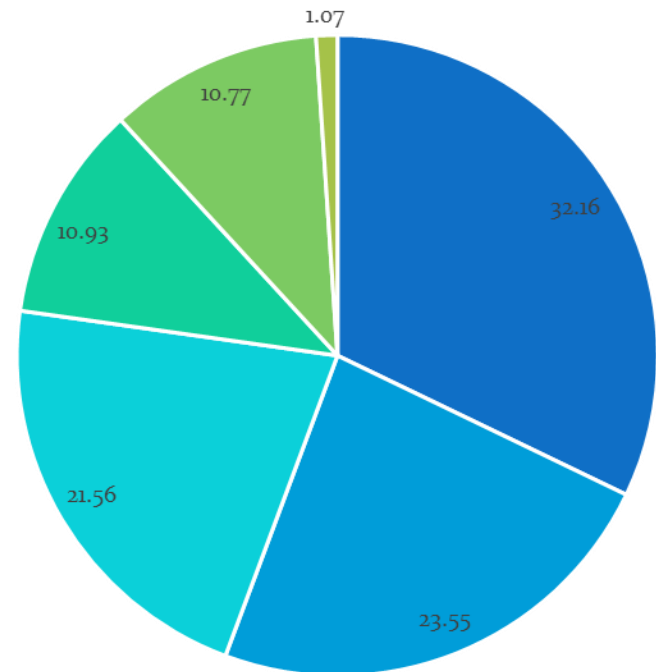
C&D Bulky Waste Study

- Conduct waste characterization study focusing on Bulky Waste (BW) (e.g., residential & commercial clean-out loads, etc.)
- Sample 200-250 BW loads over 10 days at 5 C&D Handling Facilities with highest volume of BW
 - Site visits conducted during last two weeks of May
- Analyze waste composition profile and percent recoverability for re-use/recycling markets
- Issue final report in July/August 2022

Recycling Business Development Grant-CY 22

- **27 applications**
- **Requesting Appx. \$7.5 M**
 - Food > \$2.4M
 - Textiles > \$1.7M
 - C&D > \$1.6M
 - Mattresses > \$815k
 - Glass=\$800k
 - Furniture > \$80k

RBDG Application Percentages



■ Food materials ■ Textiles ■ C&D ■ Mattress ■ Glass ■ Furniture

Any other business to discuss?

For More Information:

Point of Contact:

Mike Elliott

Asbestos/C&D Program Coordinator

MassDEP – Bureau of Air & Waste

One Winter Street

Boston, MA 02108

michael.elliott@mass.gov

617-292-5575 (office)

508-243-9087 (cell)