

An aerial photograph of Vancouver, British Columbia, showing the city's skyline, the harbor, and surrounding mountains. The image is used as a background for the top half of the slide.

Metro Vancouver Mattress Disposal Ban and Recycling

2018 ANNUAL CWMA CONFERENCE: GLOBAL CHALLENGES, LOCAL SOLUTIONS

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October 19, 2018



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION



Presentation Outline

- Mattress Disposal Ban History
- Mattress Recycling in Metro Vancouver
- Illegal Dumping in Metro Vancouver
- Extended Producer Responsibility for Mattresses
- Conclusions

Metro Vancouver Mattress Disposal Ban History

- Mattress ban since 2011
- Immediate increase in mattresses recycled
- Recycling fee initially \$20 per unit, reduced to \$15 per unit
- Concerns about potential for increases in illegal dumping



Surcharge Notices Issued for Mattresses

| | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------|------|------|------|------|------|
| Surcharge Notices | 600 | 500 | 650 | 550 | 700 |

- \$65 surcharge per mattress if present in garbage
- 3,000 surcharges issued from 2013–2017
- Mattresses account for 17% of all surcharges in 2017

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Banned Material SURCHARGE NOTICE

Facility: _____
 Date: _____
 By-law: _____
 Bann: _____
 Qu: _____
 S: _____
 i: _____

Facility: CTS, LRTS, MRRTS, NSTS, STS, WTEF
 Date: _____
 By-law: _____
 Section: _____
 Time: _____
 Schedule: _____

Banned Material: _____
 Quantity of Banned Material: _____

Surcharge: \$65 or 50% or _____
 Hauler: _____
 Truck #: _____
 Weigh Scale Ticket #: _____
 Licence #: _____

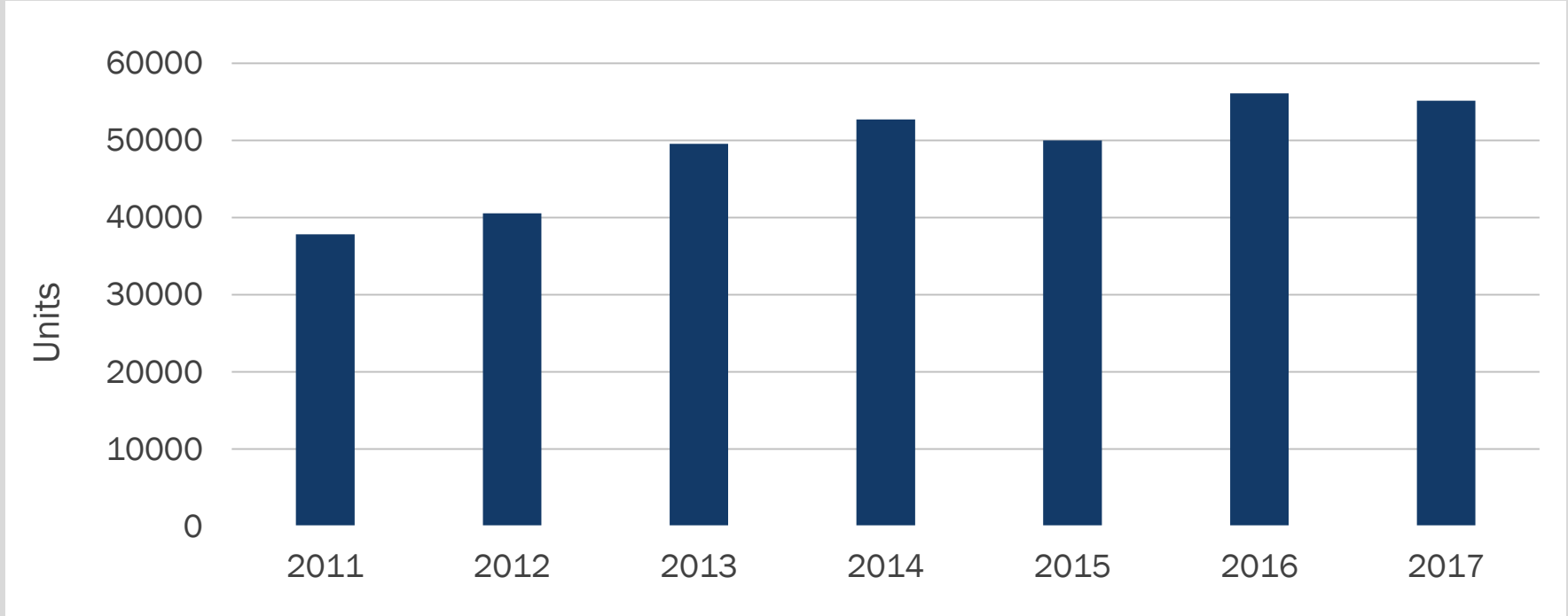
Notice Issued On-site? Yes No
 Surcharge Applied On-site? Yes No
 Discussed Notice With Driver? Yes No
 Inspected By: _____
 Comments: _____

For additional information please contact 604-451-6185
www.metrovancover.org

White Driver
 P.M. Metro Vancouver
 Orange Inspector

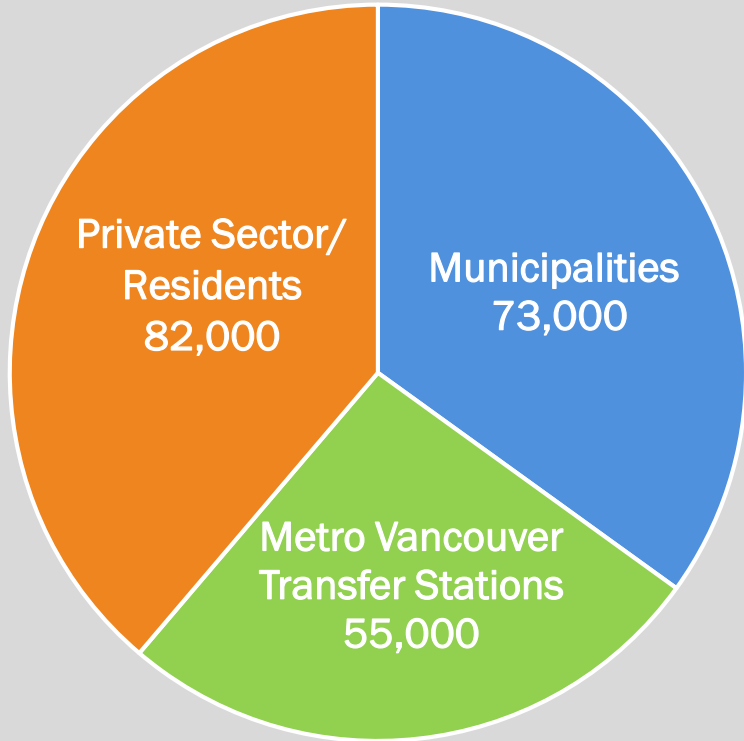
No. XXXXXX

Mattresses Recycled at Metro Vancouver Transfer Stations



Processing cost approximately \$40 per unit, with net cost to Metro Vancouver of \$1,000,000 per year

2017 Mattress Recycling in Metro Vancouver



- Estimate 210,000 units collected in Metro Vancouver region
- 72,000 processed outside of Metro Vancouver

Recycling Options

- Recycling options in British Columbia are limited
- Metro Vancouver shipping mattresses to Arlington, Washington
- City of Vancouver shipping mattresses to Vancouver Island
- New mattress recycling facility in Hope



Illegal Dumping in Metro Vancouver

Annual Statistics

- Illegally dumped & large item pick-ups:
 - 32,000 mattresses
 - 59,000 bulky furniture items
- \$2.9 million in municipal clean-up of illegal dumping in 2017
- \$2.5 million in municipal large item pick-up costs



Illegal Dumping Incidents in Metro Vancouver



| Year | Incidents |
|------|-----------|
| 2015 | 35,000 |
| 2016 | 37,000 |
| 2017 | 39,000 |

- Incidents on streets and parks, source municipal illegal dumping data

United States Mattress EPR Programs

- California, Connecticut and Rhode Island
- No disposal bans
- Visible fee at point of sale
- Free recycling at end of life
- Illegal Dump Compensation Program



Key Findings – Benefits of EPR

| Benefits | Existing for Metro Vancouver | Additional with EPR for BC |
|--|------------------------------|----------------------------|
| Avoided landfilling costs | \$350,000 | \$230,000 |
| Value of recovered materials | \$315,000 | \$200,000 |
| Jobs | 46 | 26 |
| Tonnes CO ₂ e of GHG reductions | 8,900 | 5,600 |

Source Morrison Hershfield study conducted on behalf of Metro Vancouver

Summary

- Large number of mattresses recycled in Metro Vancouver
- Limited processing options
- Cost of processing exceeds what can be charged to residents dropping off mattresses
- Rationale for EPR:
 - Implemented successfully in other jurisdictions
 - Environmental and economic benefits
 - Shifts responsibility from local governments to producers



Questions?



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