



# Making the Connection - Stormwater to Oceans

---

Regional Environmental Committee

March 5, 2020

Jill Sunderland, HRPDC



# Stormwater and Litter Workshop - Feb. 10

---

- Urban trash pollution
- Growing public concerns about impacts of debris and plastic pollution in waterways
- Interception of trash before reaching stormwater system



# Stormwater Management and Litter

- Land-based sources account for 60-80% of all marine debris
- 85% of trash in ocean is plastic
- Multiple local depts
- MS4 Floatables reduction programs
- Maintenance challenges

## Plastic Items

1995-2014

- |  |                                 |
|--|---------------------------------|
| 1. Cigarette Filters                   | 11. Balloons                    |
| 2. Beverage Bottles (Plastic)          | 12. Rope                        |
| 3. Bags                                | 13. Clothing, Shoes             |
| 4. Cups, Plates, Forks, Knives, Spoons | 14. Fishing Line                |
| 5. Food Wrappers/Containers            | 15. Oil/Lube Bottles            |
| 6. Beverage Cans                       | 16. Tires                       |
| 7. Caps & Lids                         | 17. Toys                        |
| 8. Beverage Bottles (Glass)            | 18. Fishing Buoys, Pots & Traps |
| 9. Straws, Stirrers                    | 19. Cigarette Lighters          |
| 10. Building Materials                 | 20. Six-Pack Holders            |

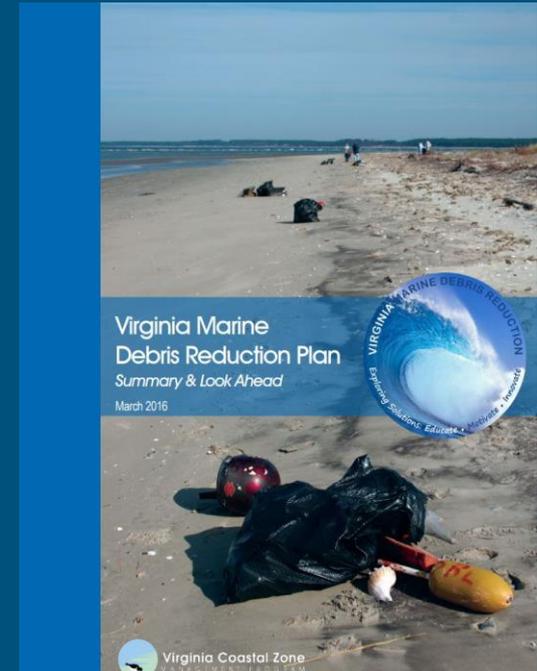
Data gathered by International Coastal Cleanup volunteers in Virginia



# Virginia Marine Debris Reduction Plan

---

- Goals of VA Marine Debris Advisory Committee:
  - Lead and collaborate
  - Source reduction
  - **Intercept at storm drains**
  - Reduce through innovation
  - Remove and cleanup



# Interception Strategies

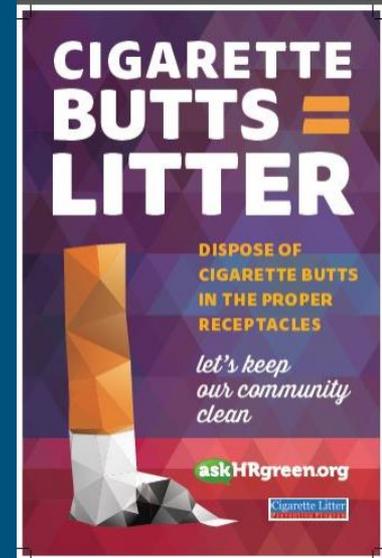
---

<b>Change Behaviors</b>	<ul style="list-style-type: none"><li>● Assess trash interception by localities</li><li>● Facilitate cross-departmental communication to support effective litter and marine debris management</li></ul>
<b>Collaboration</b>	<ul style="list-style-type: none"><li>● Facilitate the expansion of interjurisdictional programs and P3s</li></ul>
<b>Increase Knowledge</b>	<ul style="list-style-type: none"><li>● Lit review of existing research on SW interception practices</li><li>● Conduct research on SW interception practices</li><li>● Coordinate with MS4 Managers to determine funding needs</li></ul>
<b>Fund</b>	<ul style="list-style-type: none"><li>● Identify existing &amp; potential revenue streams</li><li>● Secure dedicated funding</li><li>● Explore bulk or state procurement of interception equipment</li></ul>
<b>Improve Regulations</b>	<ul style="list-style-type: none"><li>● Develop strategies to improve interception infrastructure through legislation, regs, and policies</li></ul>

# Looking Ahead

---

- Advisory Committee focused on data collection, public education, promoting successful reduction efforts, local policy review, etc.
- What resources do localities need to better prevent litter from entering the stormwater system?
- Interest in a regional Virginia Clean Waterways workshop?



**Philly spends \$48 million a year to clean up litter, Pa. report finds.**

--February 6, 2020, [www.phillyvoice.com](http://www.phillyvoice.com)