Winter Wrap Up

• Introduction
• Inlet Cleaning
• Results
  • Snowfall & inlet clogging
  • Total trash
    • By trash type
    • By land use
• Conclusions
• Predictions for Spring
Introduction

• Website: www.sites.temple.edu/trash/

• Hamil Pearsall (PI), Assistant Professor of Geography and Urban Studies, Temple University

• Robert McDermott, MA candidate, Geography and Urban Studies

• Liz Janczewski, BA candidate, Geography and Urban Studies

• Ryan Polzer, BA candidate, Environmental Studies
Winter Snowfall

Snowfall (in.)

- 12.8.13: 8 in.
- 12.10.13: 2 in.
- 12.17.13: 1 in.
- 1.2.14: 8 in.
- 1.21.14: 14 in.
- 1.25.14: 2 in.
- 1.29.14: 2 in.
- 2.3.14: 3 in.
- 2.9.14: 2 in.
- 2.12.14: 12 in.
- 2.15.14: 2 in.
- 2.18.14: 2 in.
- 3.3.14: 2 in.
Snow accumulation in Rising Sun Plaza Parking Lot

January 6th 2014

January 16th 2014
Snow accumulation in Rising Sun Plaza Parking Lot

February 7\textsuperscript{th} 2014

February 21\textsuperscript{st} 2014
Snow accumulation in Rising Sun Plaza Parking Lot

March 1st 2014

March 12th 2014
Blocked inlets (100%)
Blocked inlets and Snowfall

Clog Average

Snowfall (in.)

1=0% 2=0-25% 3=25-50% 4=50-75% 5=75-100%


Winter Totals by trash type (Raw Count)

- **Plastic Wrappers**
- **Plastic Bottles**
- **Cigarettes**
- **Paper Wrappers**
WINTER TOTAL BY TRASH TYPE
12/1/13 - 3/1/14

Trash Type

<table>
<thead>
<tr>
<th>Trash Type</th>
<th>Raw Count (Amount of Trash)</th>
</tr>
</thead>
<tbody>
<tr>
<td>METAL</td>
<td>143</td>
</tr>
<tr>
<td>STYROFOAM</td>
<td>44</td>
</tr>
<tr>
<td>PAPER</td>
<td>372</td>
</tr>
<tr>
<td>GLASS</td>
<td>15</td>
</tr>
<tr>
<td>PLASTIC</td>
<td>635</td>
</tr>
</tbody>
</table>

Entire Winter Total: 1587
Raw Total by Inlet: 12/12/13 thru 3/12/14

Winter Total by Trash Type:
- Plastic = 635
- Paper = 372
- Metal = 143
- Styrofoam = 44
- Glass = 15

Land Use:
- Commercial
- Manufacturing: Light Industrial
- Parking
- Residential: Multi-Family
- Vacant
- Wooded

Winter Total:
- 1.0 - 25
- 26 - 50
- 51 - 74
- 75 - 98

Source: ESRI Digital Globe, GetEye, Lidar, USDA, USGS, AEX Geomapping, Awengrid, INX, ESP

Inlet Cleaning (2/25)
Conclusions

• Snow has persistently blocked inlets
• Leaves have remained in and around inlets
• The commercial corridor has seen the most abundant littering
• Warmer weather has already created notable differences in trash accumulation
Spring Predictions

• More trash, particularly in commercial inlets: people will be outside more frequently

• More trash in residential inlets: inlets are perceived/used as trash cans

• More cigarette butts: people are more inclined to smoke when the weather is nice

• Trash in outfall area: Spring precipitation will bring more trash directly into the creek

**Question:** How much rain would be necessary for the outfall to bring water into the creek?