

So You Want to Do a Clean-up?



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Coastal Resources
MANAGEMENT PROGRAM



Agenda

- * Welcome and Introduction
- * Overview of Annual Clean-Ups: **Amy Murdock**
 - * List of Annual Clean-Ups
 - * How to Sign up for a Clean-Up
- * How to Organize a Clean-Up Checklist: **Brittany Prischak**
- * Organizing a Neighborhood Clean-Up: **Margarita Dangel**
- * Questions?





Overview of Annual Clean-Ups

*Pennsylvania Coastal
Resources Management
Program*

Pennsylvania Coastal Resources Management Program

- * Coastal Resources Management Program
- * International Coastal Cleanup



Lake Erie Coastal Zone Facts

- * Great Lakes

- * 5 States, 1 Province, 2 Countries
- * 10,210 miles of shoreline
- * 33 million people
- * 84% of North Americas freshwater
- * 1/5 of worlds freshwater

- * Lake Erie

- * Drinking water for 11 million
- * 20 Power Plants
- * 40% of all G.L. Charter Boats
- * 1 of top 10 sport fishing locations in the world
- * \$1.5 billion sport fishery



The Challenges of Development

- Conflicts Between Competing Uses
- Increased Development
- Increased Pollution
- Habitat Degradation
- Over-Fishing
- Invasive Species



International Coastal Clean-Up

- * Est. 1986 - Ocean Conservancy
- * Volunteer Effort
- * Ocean Trash Index
- * 2015 International Coastal Clean-Up Results:
 - * 93 Countries
 - * 791,336 volunteers
 - * 25,188 miles of coastline walked/cleaned
 - * 18,062,911 pounds
- * Top Items Collected include:
 - * Cigarette Butts (> 2 million)
 - * Plastic Bottles (> 1million)
 - * Food Wrappers (> 888,000)
 - * Plastic Bottle Caps (> 861,000)
 - * Straws, Stirrers (> 439,000)



Lake Erie Coastal Clean-Up

- * Established in 2003
- * Presque Isle State Park
- * Local volunteer effort
- * Raise Awareness
- * Build Partnerships
- * Re-Connect People to their Environment



2015 Lake Erie Coastal Clean-Up

- * 17 Locations
- * > 10 Local Schools
- * 2015 Clean-Up Efforts:
 - * 1938 volunteers
 - * 73 miles
 - * Top Items –
 - * Cigarette Butts
 - * Food Wrappers
 - * Caps/Lids
 - * Plastic Bottles
 - * Cigar Tips



Local Clean-Up Events

- * Great American Clean-up – March – May
 - * Keep America Beautiful
- * International Coastal Clean-up – 3rd Sat. of Sept.
 - * DEP and Erie County
- * Presque Isle State Park – Annual Spring Clean-up
 - * Annually in April near Earth Day
- * Presque Isle State Park – Adopt-A-Beach Program
 - * March – October each year
- * Personal Involvement – Weekly clean-ups with volunteers, local organizations, youth groups, etc..

Information and Resources

- * International Coastal Cleanup Website
 - * <http://nie.goerie.com/coastal-cleanup/>
- * Facebook
 - * <https://www.facebook.com/erieinternationalcoastalcleanup>
- * United Way's "Get Connected"
 - * http://www.getconnectederie.org/volunteer/agency/need/?need_id=63864
- * Ocean Conservancy Website
 - * <http://www.oceanconservancy.org/our-work/international-coastal-cleanup/>

How you can help?

- * Get Involved and Stay Informed
- * Reduce, Reuse, Recycle
- * Participate in the international coastal cleanup on September 17, 2016 in Erie County, PA
- * Comments or Questions?

Photos:

- Courtesy of Don Benczkowski
- http://www.groundwater.org/gi/swap_planning.html

Hectors Falls – Allegheny National Forest



Cuyahoga River Fire – Cleveland, Ohio -1969



<http://www.dailykos.com/story/2011/06/15/985285/-A-Nation-without-Regulations-is-a-Nation-of-Disaster-Despair>

Jake Moore | Environmental Planner
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Program

Dept. of Environmental Protection

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Thank you for your time. Questions?



How to Organize a Clean-up Checklist

Erie County Recycling

5 Steps to Organizing a Clean-up

1. Site Assessment
2. Recruitment
3. Obtaining Supplies
4. Clean-up Day
5. Long-term Maintenance

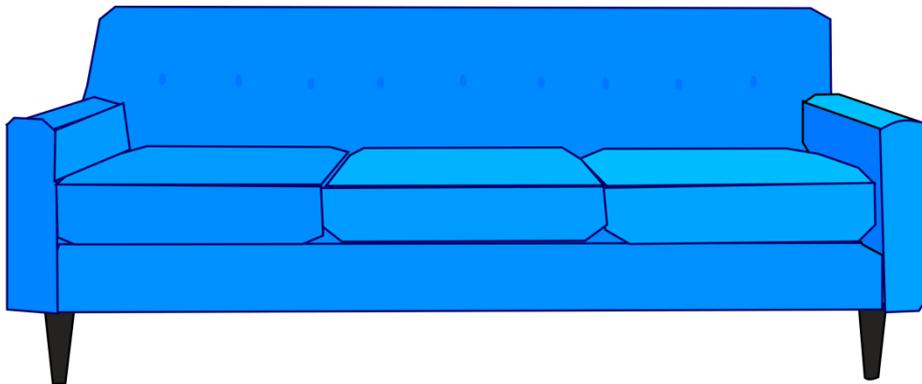


Site Assessment

- * Contact local municipality
- * Contact Erie County Health Department if Illegal Dumping
- * Contact Property owner
- * Take pictures
 - * Before pictures for communication and to remember what the area looks like
- * Walk with a few people, different perspectives
- * Think about how to direct people to the site (address, landmarks, nearby businesses, etc)
- * Who owns property?
 - * **need to know before visiting site, should have permission to walk & clean
- * Which municipality has jurisdiction?
 - * Ask for help, volunteers, disposal assistance, etc
- * How big of an area?
 - * How many volunteers and how much trash?
- * What types of material?
- * Is there parking for volunteers?
- * Is there a central location for trash pick-up or is there a dumpster nearby for disposal?
- * Who is nearby?
 - * Businesses and homeowners?
 - * Notify about clean-up.

Site Assessment cont'd

- * Electronics
- * Large bulky items
- * Hazardous Waste
- * Tires



Recruitment

Who to ask

- * Property owners
- * Nearby Businesses & homeowners
- * Local Schools & Universities
- * Local non-profits
- * Get Connected Erie
- * Keep PA Beautiful
- * International Coastal Clean-up / Adopt-A-Beach / Keep Erie County Beautiful network
- * Social Media

Things to consider

- * Liability Waiver
- * Permission forms
 - * Younger than 18
- * Photo Release



Obtaining Supplies

Potential Supplies

- * Required
 - * Trash bags
 - * Black v. white/clear
 - * Gloves
 - * Cotton or latex
- * Optional
 - * Scales
 - * Water
 - * Orange Vests
 - * Signage about Clean-up - “Caution Litter Crew Ahead” or cones
 - * Clipboards, Data cards, writing utensils



Where to Get Them

- * Keep PA Beautiful
- * PennDot
- * Local Donations
- * Local Municipality



Clean-up Day

Before Event

- * Contact local Media (press release) (1-2 weeks and 2-3 days)
- * Maps of site
 - * Directions & parking spots
 - * Clean-up zones w/ designated teams & locations
- * Disposal plan for trash collected
- * Liability Waivers, Permission forms, and Photo Release forms collected
- * Before Photos, Group Photos





- Group 1: Iroquois Elementary Students (2-3 groups of 3-4 students)
 - Clean along east side of creek, Main Street north to the edge of Napier Park
- Group 2: Iroquois Elementary Students (1 groups of 3-4 students)
 - Clean along west side of creek, Pedestrian Bridge to the edge of Napier Park
- Group 3: Adults (2-3 people)
 - Clean along creek bed between Napier Park and Main Street bridge
- Group 4: Adults (3-4 people)
 - Clean along west side of creek & parking lot, Main Street north to the edge of Baseball field
- Group 5: Adults (4-6 people)
 - Clean along both sides of creek & west side parking lot, Main Street south to edge of gravel lot
- Group 6: Adults (2-4 people)
 - Clean along creek bed between Main Street south to pedestrian bridge
- Group 7: Adults (3-6 people)
 - Clean along both sides of creek, railroad bridge north to edge of gravel lot

Clean-up Day cont'd

During of Event Reminders

- * Safety Talk
 - * Poison Ivy
 - * Ticks
 - * Traffic
 - * Coolers, bottles w/ unknown liquids, Meth Labs
 - * Needles, unknown materials
- * Buddy system
- * Monitor weather
- * Keep track of all trash collected
- * Take Pictures!
- * Social media buzz



Clean-up Day cont'd

End of Event

- * Make sure all materials are removed or scheduled to be removed – double check!
- * Collect extra supplies or those that can be cleaned and reused
- * Thank all of your volunteers
- * Take Photos
- * Social Media Buzz



Long-Term Maintenance

- * Monitoring of site once clean, especially if illegal dumping
- * Consider biennial clean-ups of the same site
- * Determine who is responsible, and work with local police and code enforcement
 - * Erie County Health Department – Nuisance Regulations & Enforcement

- * Surveillance Camera Loan Program

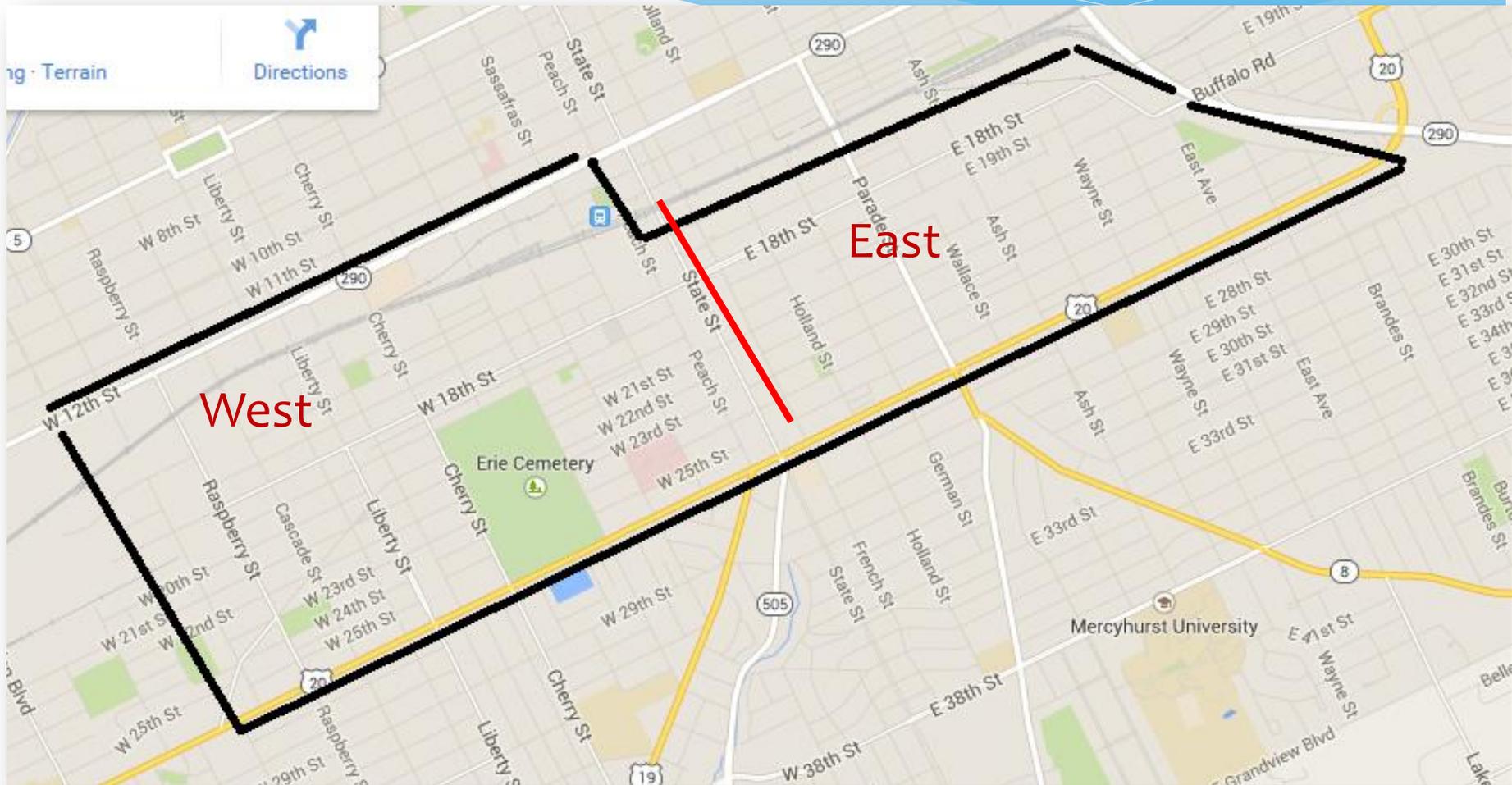
 **ILLEGAL DUMP FREE PA**





Organizing a
Neighborhood Clean-Up
*Sisters of St. Joseph
Neighborhood Network*

Sisters of St. Joseph Neighborhood Network, East



How do clean-ups fit into our overall mission?

One of our goals states:

- * **Safe/Clean & Green:** The Eastside Multicultural Community is perceived to be safe and pleasant place to live, work and play.

Why the focus on clean-ups?

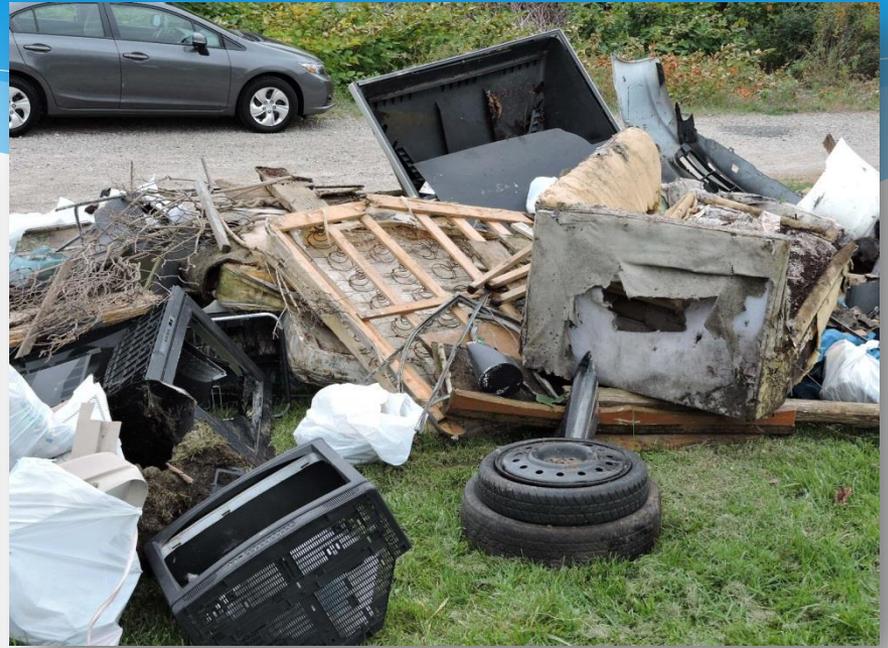
The Broken Windows Theory

Essentially, it says signs of urban decay encourage criminal behavior. The theory was developed in the early 1980's by social scientists who argued that the way to address urban crime was to increase foot patrols and reduce signs of blight.

Policing theory suggests fixing broken windows helps fix crime

* By Leila Day • Jul 24, 2013





What we have done in one year

Six clean-up events

We picked up 9,852 (+) small items, including

- * **4,287** cigarette butts

We removed

- * **15 tons** of illegal dumping items, including 70 tires

We removed

- * **7 tons** of abandoned items from one house

Litter Clean-up in your Neighborhood

So, You Want to Do a Clean-up in your Neighborhood?

For Litter-Clean-up Event

1. Site Assessment
2. Recruitment
3. Obtaining Supplies
4. Clean-up Day
5. Long-term Maintenance

Organizing your teams

- * In teams of 3 (2 pick-up litter, one records)
- * Each team has a map with assigned streets, blocks and what side of the block
- * Get a phone number from each team member, give them your phone number
- * Have a volunteer in charge of several teams:
 - * drive around checking on teams,
 - * provide additional garbage bags
 - * Collect garbage bags that are too heavy to carry
 - * Remind them when it is time to head back to meeting place

Litter Clean-up in your Neighborhood

So, You Want to Do a Clean-up in
your Neighborhood?

Hardest thing:

Accurate data collection

Litter Clean-up in your Neighborhood

So, You Want to Do a Clean-up in
your Neighborhood?

Most work:

Prepare Data Sheets

Litter Clean-up in your Neighborhood

SSJNN NEIGHBORHOOD CLEAN-UP DATA SHEET

Please use tally marks beside the appropriate category to keep track of each item you pick up. Only one tally in one category should be used per item.

Name: _____ **Event:** _____ **Date:** _____

Street: _____ **Block:** _____ **Side:** N E S W

Litter Clean-up in your Neighborhood

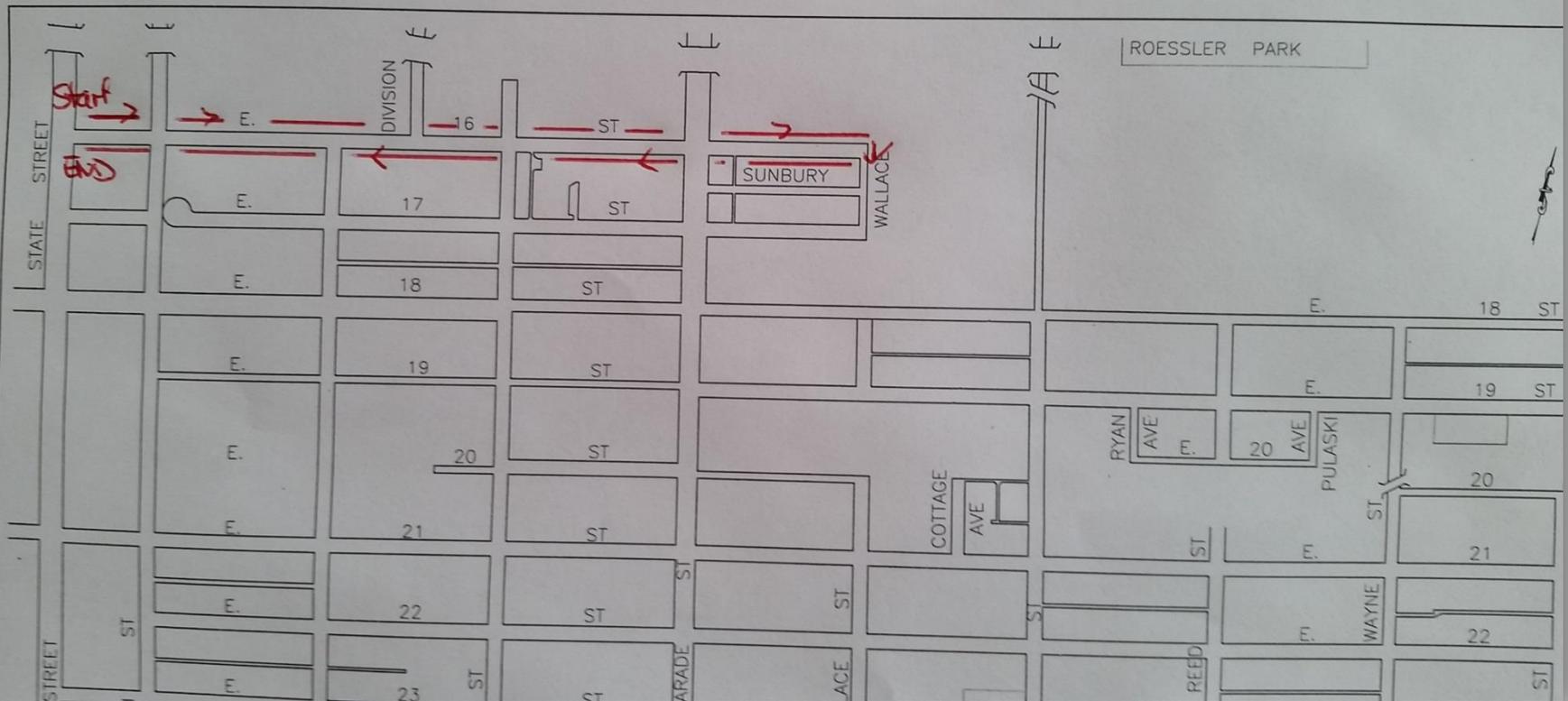


Litter Clean-up in your Neighborhood

Team 1: State St to Wallace on East 16th St - N + S

000 block
100 block
200 block

300 block
400 block



Litter Clean-up in your Neighborhood



Used items and packaging

Cigarette butts:

Cigar Tips:

Take out containers:

Fast food wrappers:

Food wrappers (candy, chips, etc.):

Plastic bottles:

Glass bottles:

Plastic bottle caps:

Metal bottle caps:

Boxes (cardboard):

Lids:

Straws:

Forks, knives, spoons:

Cans:

Plastic bags:

Other bags:

Paper cups/plates:

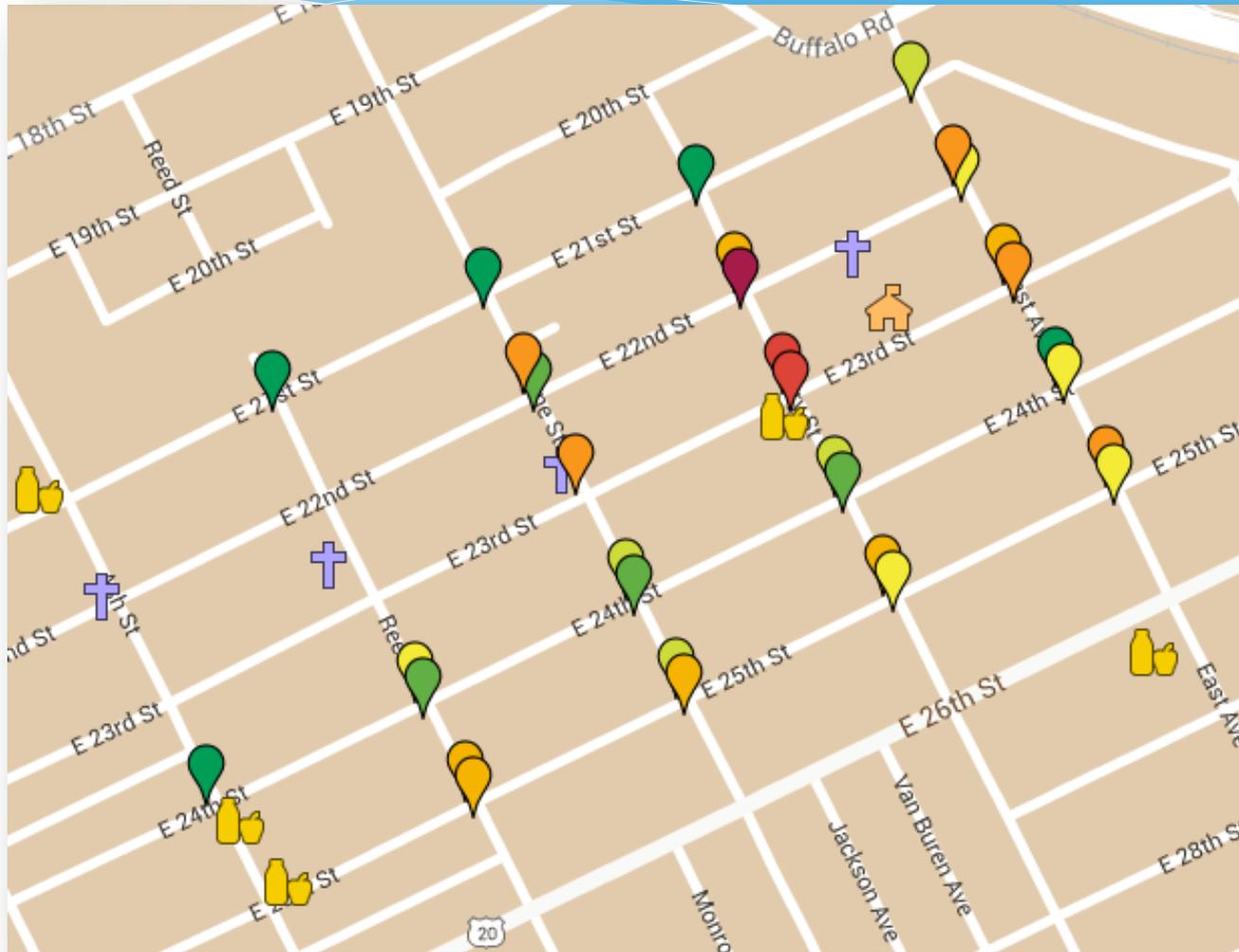
Plastic cups/plates:

Foam cups/plates:

Litter Clean-up in your Neighborhood

Other materials	Personal hygiene
Other plastic:	Diapers:
Other paper:	Condoms:
Other metal:	Feminine products:
Other glass:	Syringes:
Other foam:	Dog poop:
Miscellaneous	
Appliances:	
Electronics (TVs, etc.):	
Furniture (couches, chairs, tables, etc.):	
Additional notes/items of concern:	
Note location/address with a lot of litter (i.e. cigarette butts or drug paraphernalia); empty lot, etc.	

What you get from data collection:



LITTER TOTALS BY BLOCK

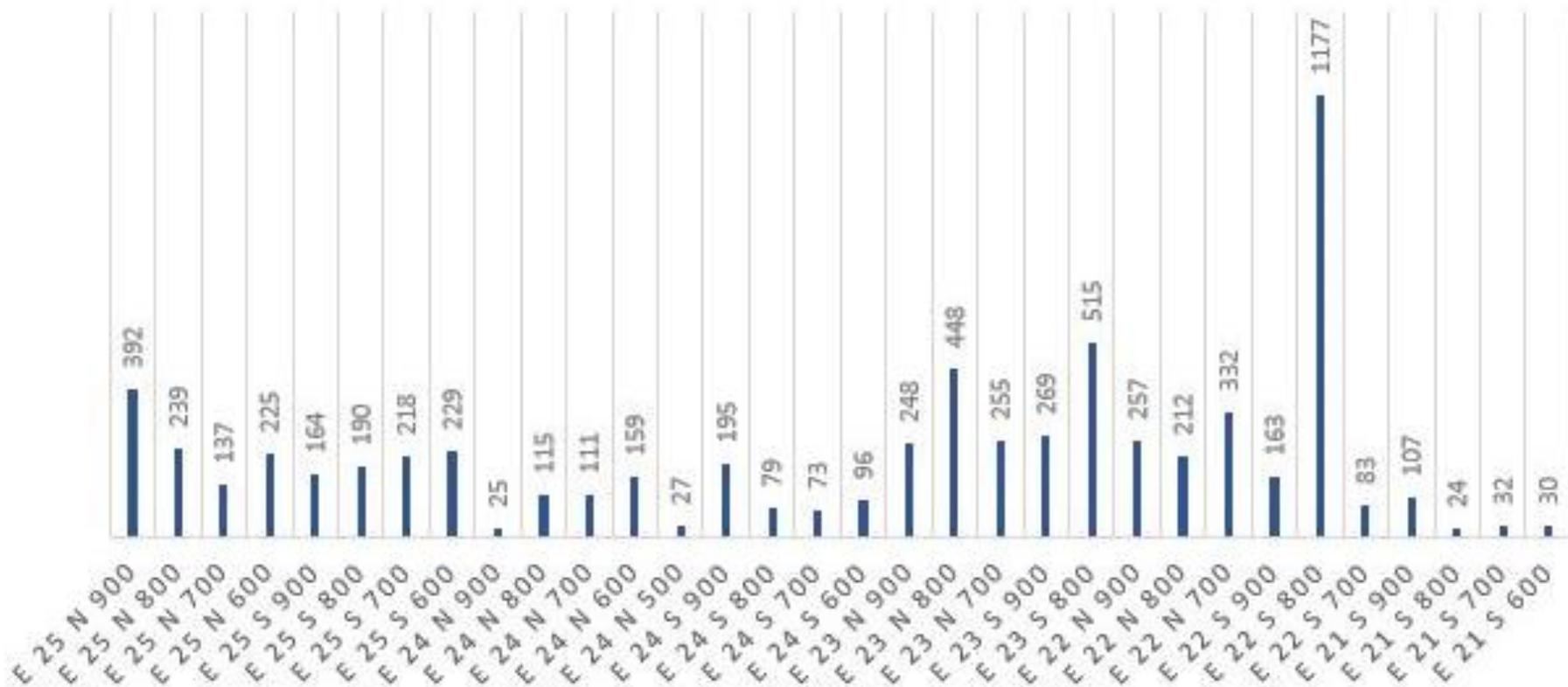
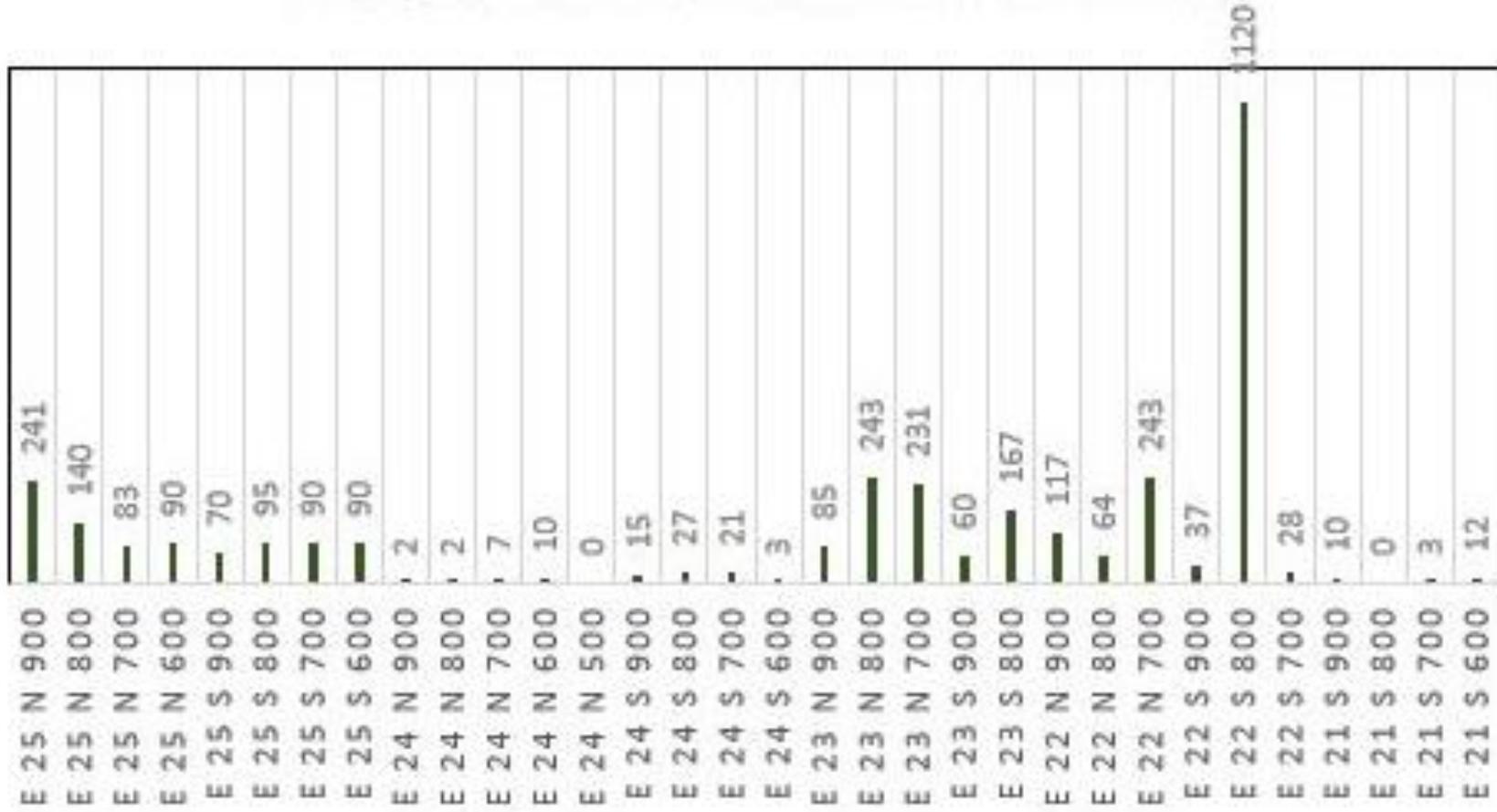


Figure 1

CIGARETTE BUTTS BY BLOCK



Questions?

Thank you to everyone for attending!

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