

NYC Industrial Waterfront Communities Pollution Prevention, Toxics Reduction, and Resiliency Planning

Third Stakeholder Engagement Group Meeting

Tuesday, October 20th, 2015

THE POINT CDC, 940 Garrison Avenue, Bronx, NY 10474

Meeting Agenda

1. Welcoming remarks (EPA, NYS-DEC, NYSP2I, NYC-EJA): 5 mins.

2. Introductions: 10 mins.

3. Project update: 15 mins.

- a) Project overview and status update (NYS-DEC)
- b) Mapping and spatial analysis (NYC-EJA)
- c) Community outreach activities (NYC-EJA)

4. Next milestones in work plan (NYSP2I): 15 mins.

5. Discussion: 40 mins. (facilitated by Angela Tovar)

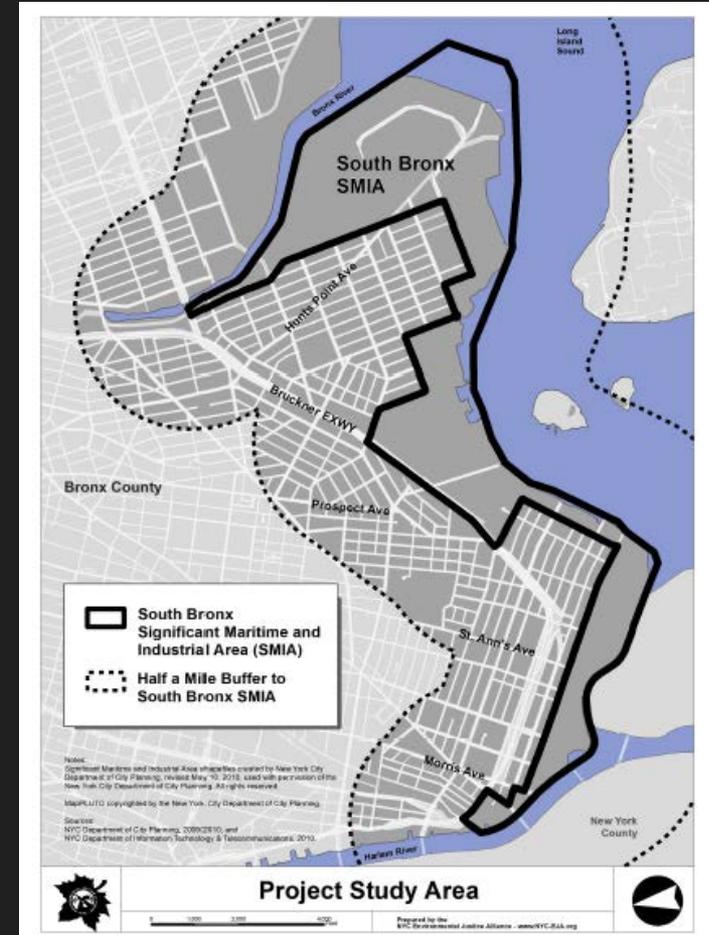
6. Next Steps & Final Remarks: 5 mins.

Project overview and status update

- Report on status
- Findings of Facility Assessments
- NYSP2I site visit

Goals and Objectives

- Improve sustainability and climate resiliency in the South Bronx community and industrial waterfront
- Assess local businesses in order to identify and implement cost-effective strategies aimed at pollution prevention, toxics reduction, and climate adaptation
- Share best management practices to build resiliency for climate adaptation and pollution prevention



Tasks Summary

Task 1: Define and assess toxic potential exposure risk

Task 2: Inventory potential hazardous risk exposures

Task 3: Provide Pollution Prevention/Green Engineering Assistance

Task 4: Document potential population impacts

Task 5: Develop Best Management Practices

Summary of Facility Assessment and Site visits

Total number of completed Assessments..... 62

Types of Facilities Assessed:

Auto Repair, Auto Salvage, Auto Body Shop, Auto Specialty, Scrap Metal Collection and Vehicle Dismantling, Light Fixture Manufacturing, Industrial Diamond Manufacturing, Janitorial Product Manufacturing, Dry Cleaners, Printers, Remediation Site, Utility, Warehouse, Waste Transfer and Storage, Oil Terminal, Parcel Service, Food Manufacturing and processing, Architectural Services

Site Risk Assessment



Probability of Release: 1 2 3 4 5

Potential Impact on Environment: 1 2 3 4 5

Overall Risk Level: -Low -Moderate -High

Auto Related



NYC Industrial Waterfront Communities Pollution Prevention, Toxics Reduction, and Resiliency Planning

-  South Bronx Significant Maritime and Industrial Area
-  Half a Mile Buffer to South Bronx SMIA
-  Hunts Point Food Distribution Center

NYS-DEC Facility Assessments:

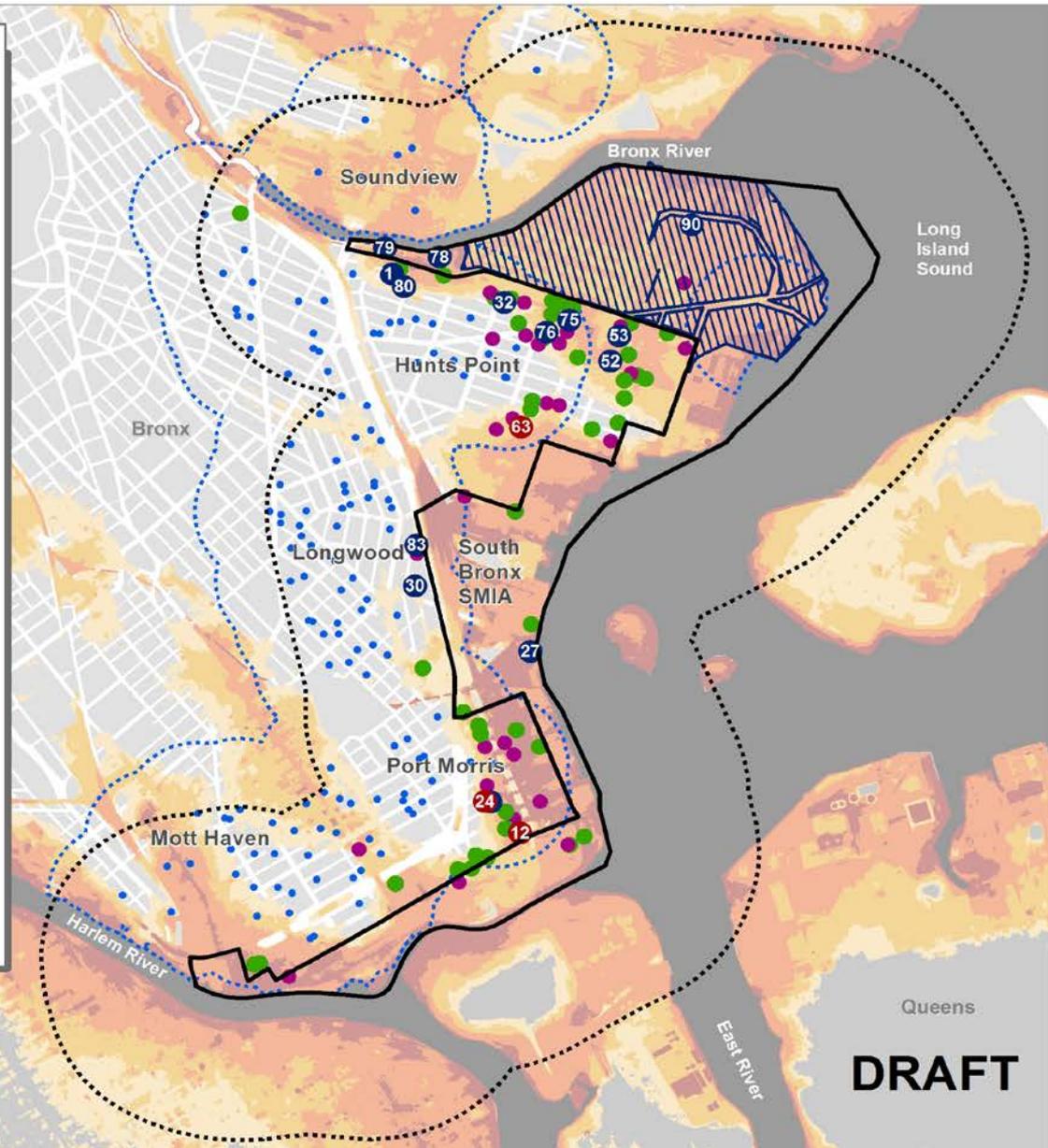
-  Overall Risk Level "High"
-  Overall Risk Level "Moderate"
-  Overall Risk Level "Low"
-  Overall Risk Level "Not Available"

NYS-OEM Hurricane Storm Surge Zones:

-  Hurricane Category 1
-  Hurricane Category 2
-  Hurricane Category 3
-  Hurricane Category 4
-  Quarter Mile Buffers to Community Facilities
-  Community Facilities

Notes:
 "Overall Risk Level" data has been determined by the NYS-DEC facility assessments. Significant Maritime and Industrial Area shapefiles created by New York City Department of City Planning, revised May 10, 2010, used with permission of the New York City Department of City Planning. All rights reserved. MapPLUTO copyrighted by the New York City Department of City Planning. This map displays all community facilities published by the NYC-DCP.

Sources: NYC Department of City Planning, 2011/2013/2015; NYC Department of Information Technology & Telecommunications, 2011; NYS Office of Emergency Management, 2013; and NYS Department of Environmental Conservation, 2015.



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Although the information in this document has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement NP-96287313 to the New York State Department of Environmental Conservation, it has not gone through the Agency's publications review process and, therefore, may not necessarily reflect the views of the Agency and no official endorsement should be inferred.



NYS-DEC Facility Assessments & Community Facilities



Prepared by the NYC Environmental Justice Alliance - www.NYC-EJA.org



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 South Bronx Significant Maritime and Industrial Area

 Half a Mile Buffer to South Bronx SMIA

 Hunts Point Food Distribution Center

NYS-DEC Facility Assessments:

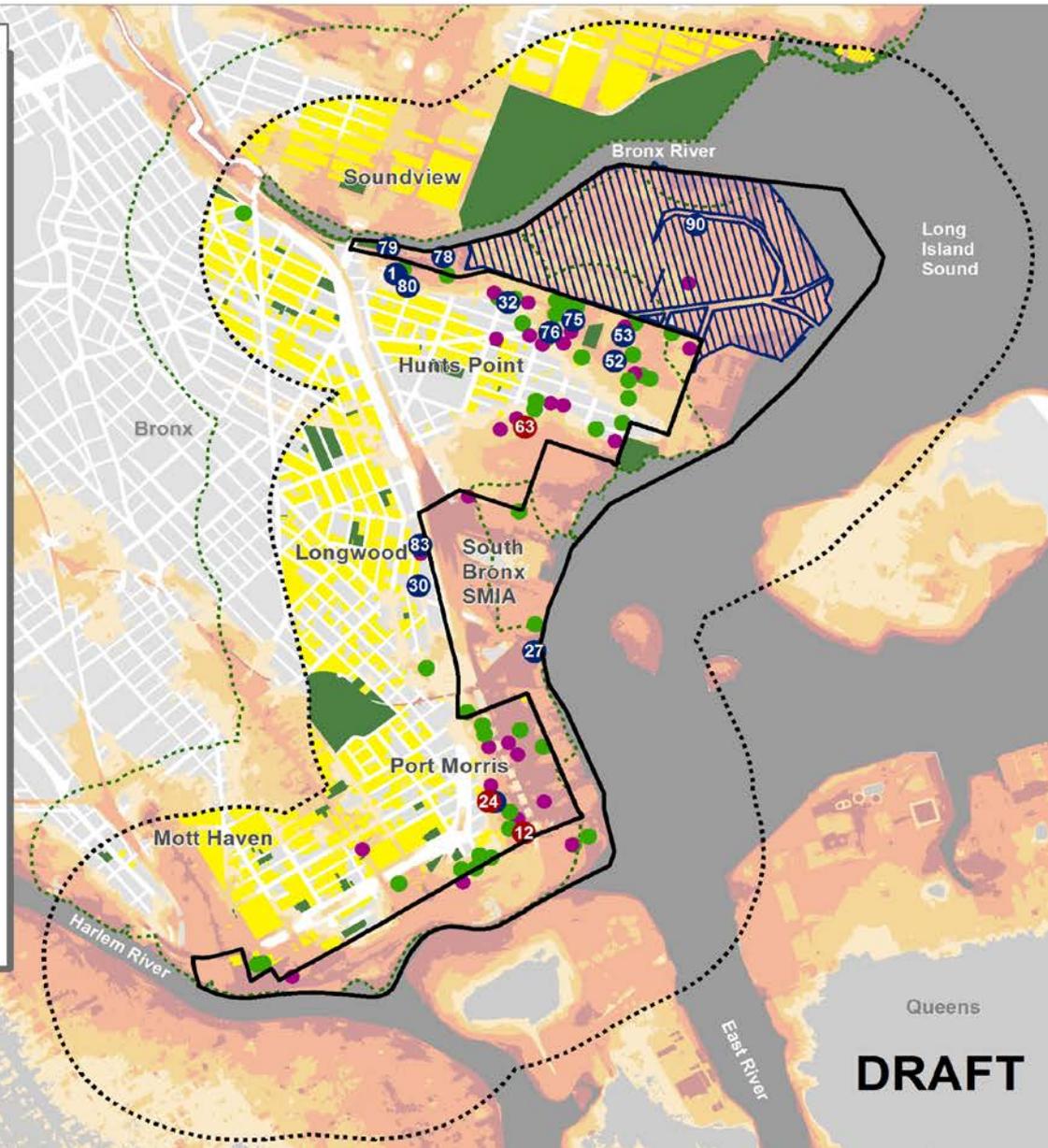
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NYS-OEM Hurricane Storm Surge Zones:

-  Hurricane Category 1
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-  Hurricane Category 3
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-  Quarter Mile Buffers to Residential Lots & Open Spaces
-  Residential Lots
-  Open Spaces

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Sources: NYC Department of City Planning, 2011/2013; NYC Department of Information Technology & Telecommunications, 2011; NYS Office of Emergency Management, 2013; and NYS Department of Environmental Conservation, 2015.



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NYS-DEC Facility Assessments, Residential Lots & Open Spaces

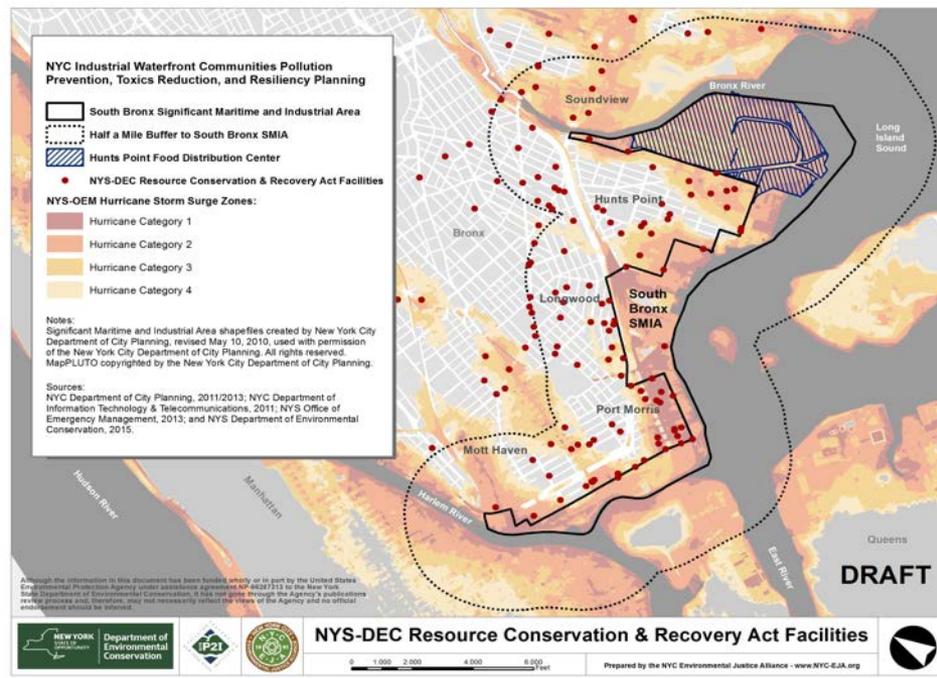
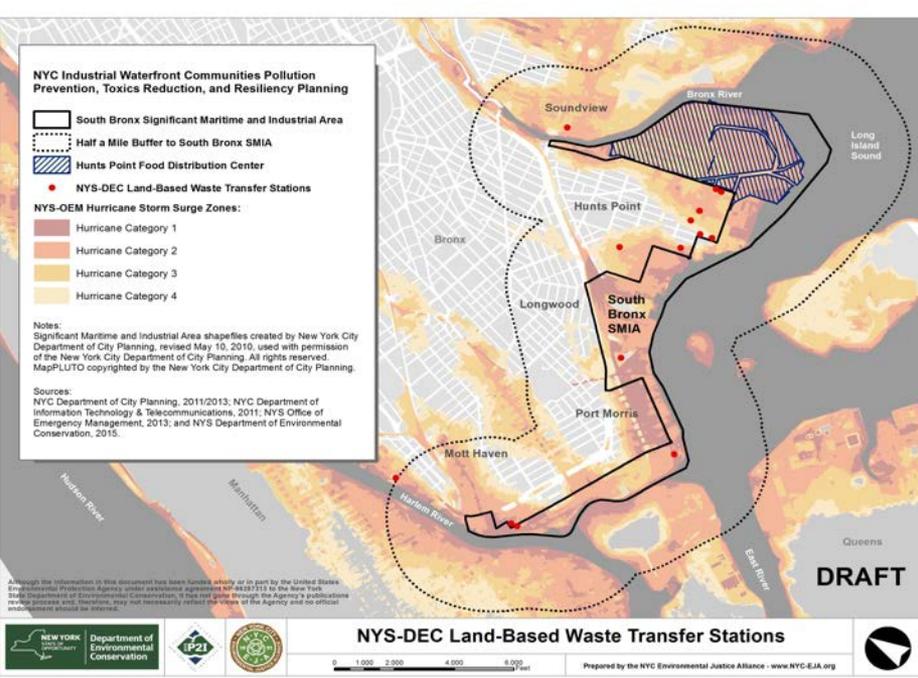
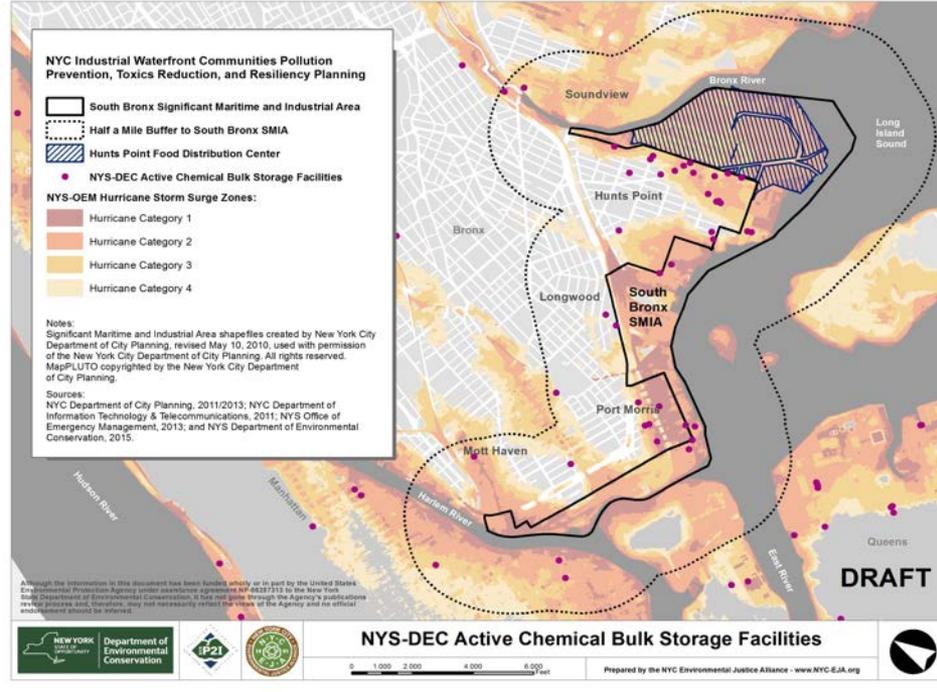
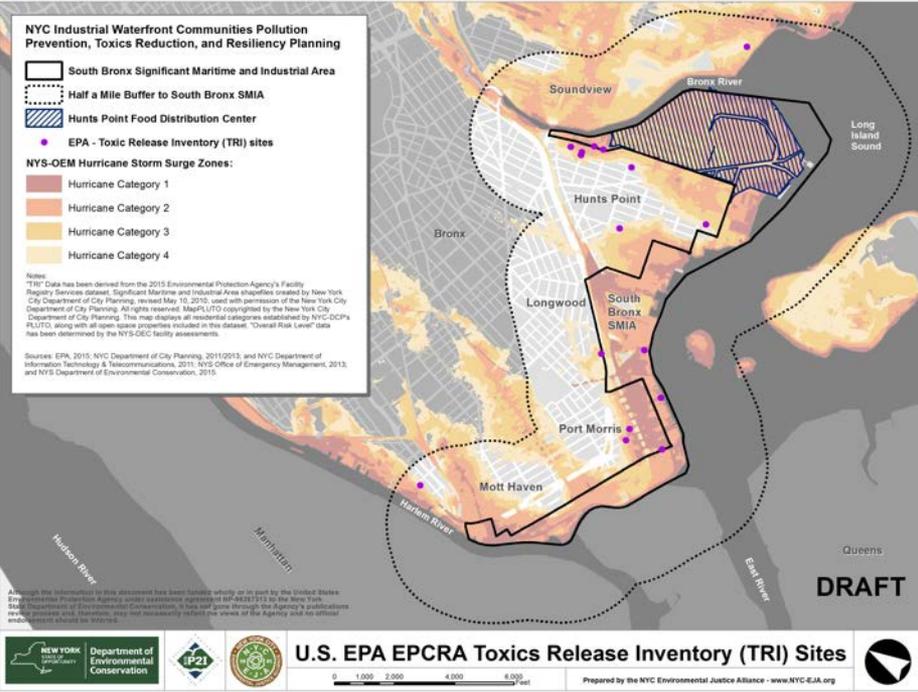


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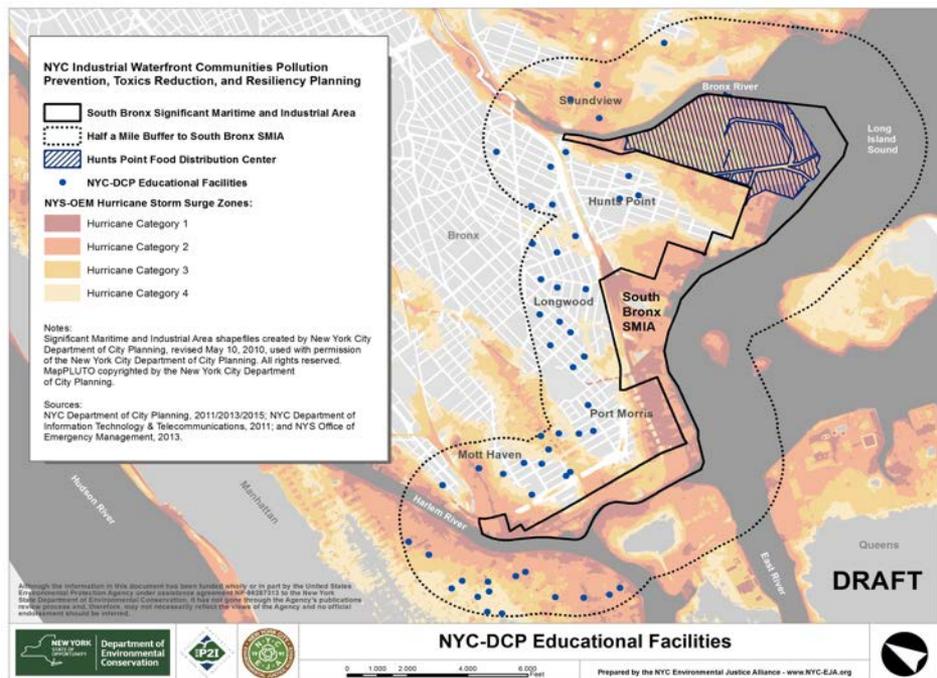
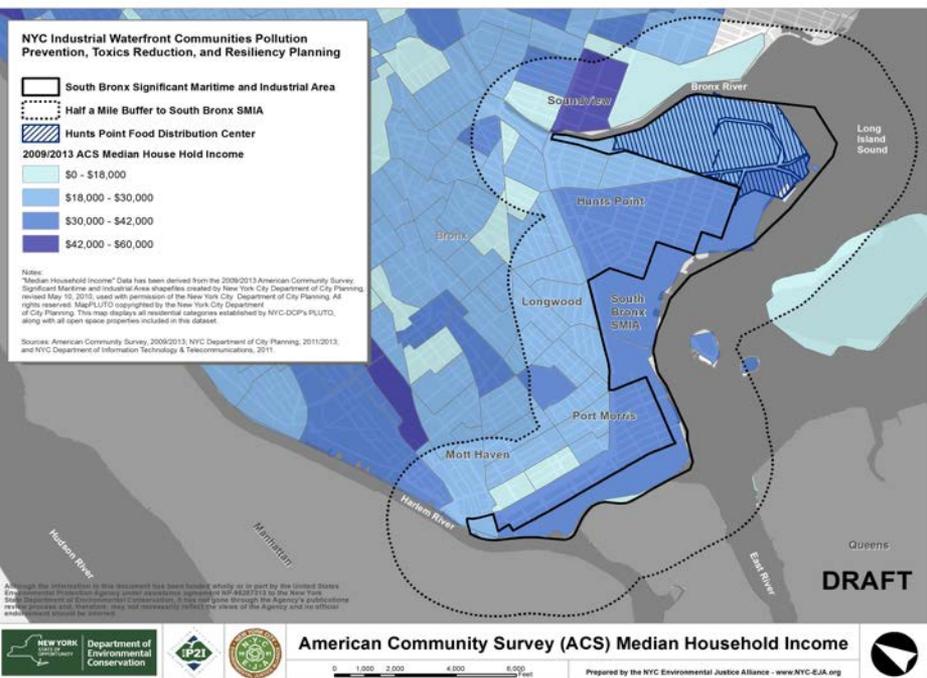
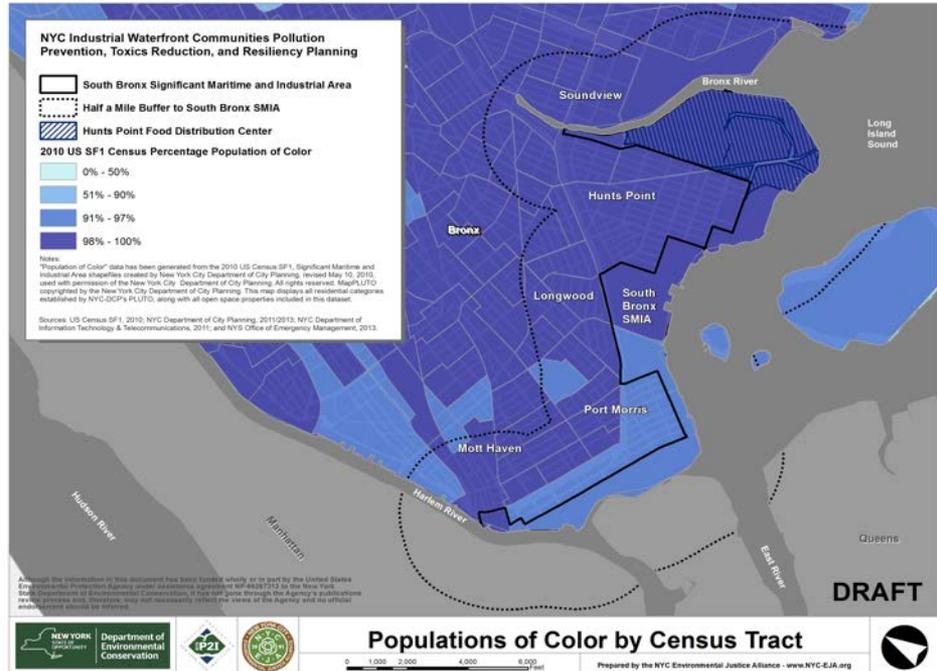
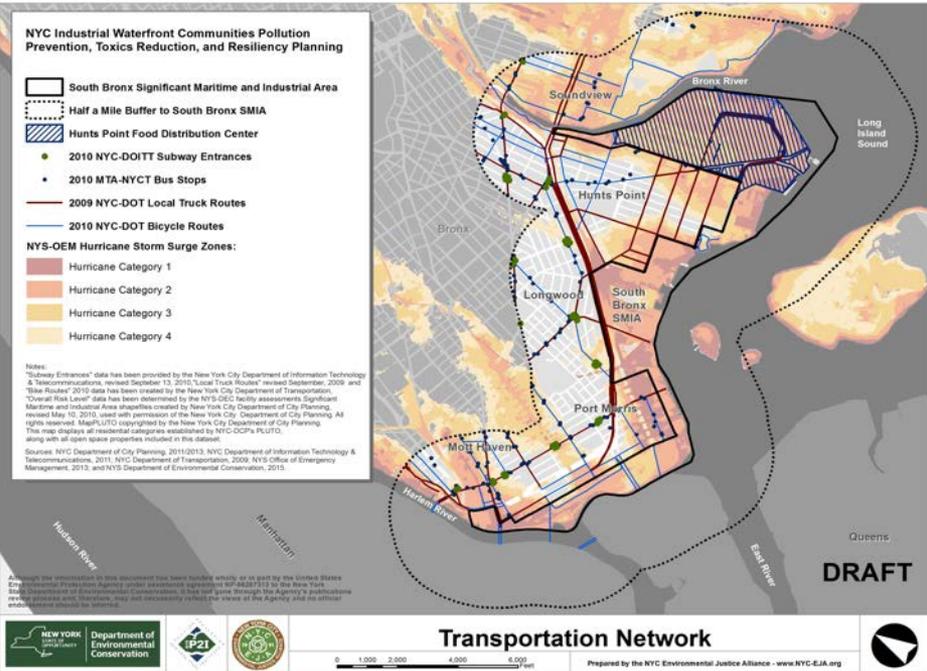
Task 2 Maps

- Created 16 Maps
- Documentation of various environmental permits (US-EPA, NYS-DEC, NYC-DEP)
- Spatial analysis identifying proximity to NYS OEM projected storm surge zones



Task 4 Maps

- Created 21 Maps
- Documentation of baseline demographic and socioeconomic characteristics
- Documentation of critical community facilities, transportation infrastructure, and emergency evacuation infrastructure
- Spatial analysis identifying proximity to NYS-OEM projected storm surge zones



Community Outreach Activities

- Activities to date
- Future outreach goals for Community Workshops

Community Outreach Activities

- Environmental Committee, Bronx Community Board 2, February 2014
- 1st Stakeholder Engagement Group Meeting, May 2014
- Economic Development Committee, Bronx Community Board 2, June 2014
- Hunts Point Economic Development Corporation Briefing, July 2014
- Bronx Community Board 2 update meeting, November 2014
- 2nd Stakeholder Engagement Group Meeting, December 2014
- Individual Follow-up calls with Stakeholder Engagement Group Members



1st Stakeholder Meeting May 2014



1st Stakeholder Meeting May 2014

2 Community Workshops



NYC-EJA Facilitated Workshop



NYC-EJA Facilitated Workshop

- Participants: Local Businesses, Workers, & Community Stakeholders
- Goal: Distribute 50 Toolkits in order to share Best Management Practices (BMPs) for pollution prevention & climate adaptation
- Measuring Outcomes: 50 Increased Awareness Surveys

Next milestones in work plan

- On-site technical assistance for two businesses (implementation) in study area.
- Toolkit and workshops to share best management practices to build resiliency for climate adaptation and pollution prevention.

On-site Technical Assistance – NYSP2I

- Prioritization for contacting companies based on:
 - Storm surge zone (1-high priority, 4-lower priority)
 - Willingness to participate (1- interested, 4 - not willing)
 - P2 opportunity identified
 - Overall risk level (High, Medium, Low)
- 4 companies were scheduled for site visits on 9/21-9/22.
- Objective of site visit: perform brief technical analysis to identify P2 implementation opportunities that are relevant to the objectives of the EPA grant.

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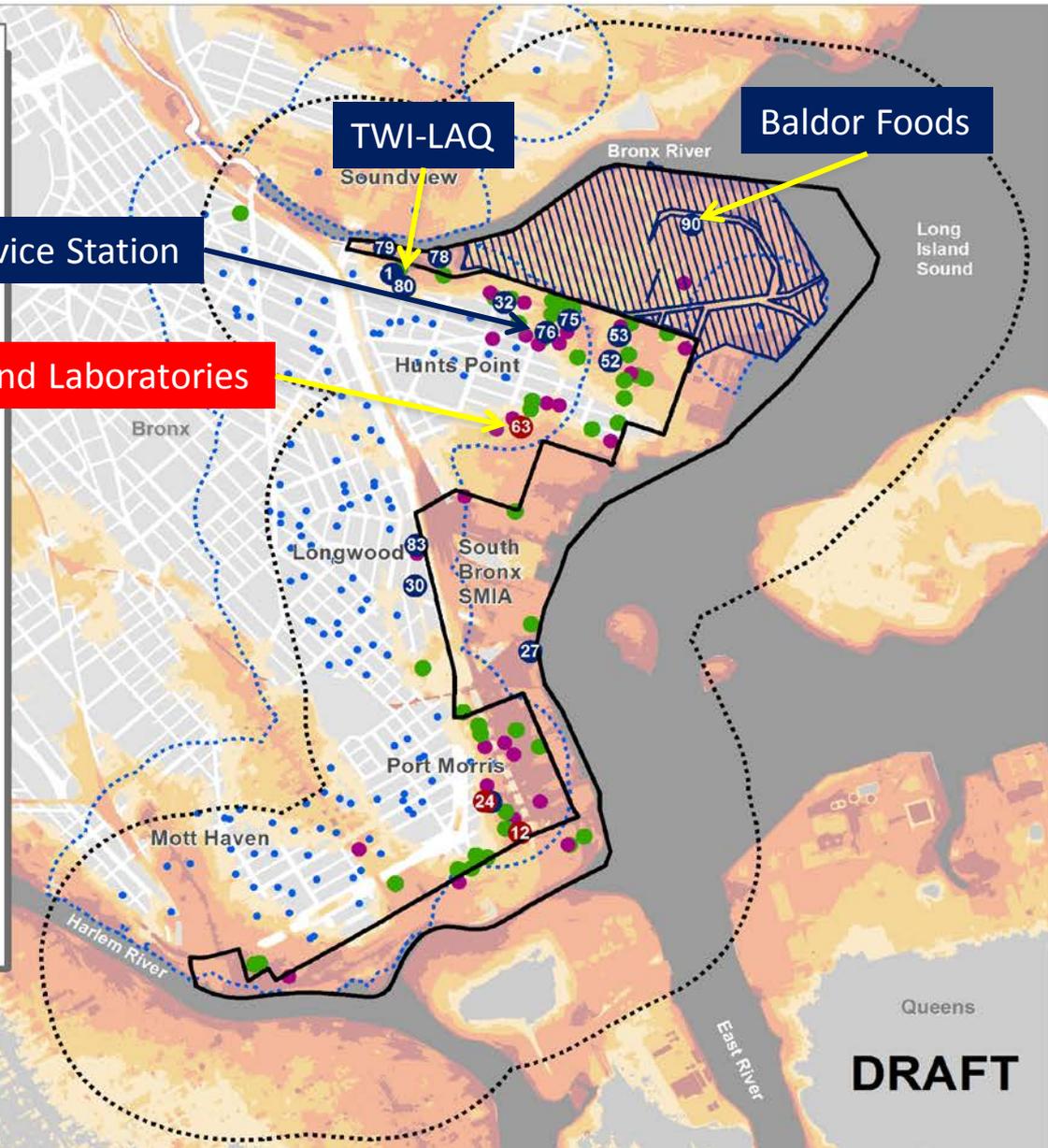
Sources: NYC Department of City Planning, 2011/2013/2015; NYC Department of Information Technology & Telecommunications, 2011; NYS Office of Emergency Management, 2013; and NYS Department of Environmental Conservation, 2015.

Hunts Point Service Station

Industrial Diamond Laboratories

TWI-LAQ

Baldor Foods



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NYS-DEC Facility Assessments & Community Facilities



Prepared by the NYC Environmental Justice Alliance - www.NYC-EJA.org



On-site Technical Assistance – NYSP2I

- TWI-LAQ
 - Manufacturer of cleaning chemicals and janitorial supplies.
 - They currently utilize P2 strategies, such as using waste water from one process as input for the next production batch.
 - Produce minimum hazardous waste.
 - Solar panel on the roof of their building.
- Areas of Opportunity
 - Flooding in basement during heavy rains due to sewer back-up.
 - High water costs due to the amount of water used in products (not production).
- Results
 - P2 opportunities not identified. TWI-LAQ is not an ideal candidate for the EPA grant but may benefit from other programs.

On-site Technical Assistance – NYSP21

- Baldor Foods
 - Baldor Specialty Foods, Inc. provides high quality produce to clients all over the United States, e.g. restaurants, hospitals, and hotels.
- Areas of Opportunity
 - Baldor generates approximately 30,000 lbs of food waste/day that goes to landfill.
 - Baldor has experienced issues with forklift battery life due to the round-the-clock nature of their operation. To remedy this problem, Baldor is testing methanol fuel cells as a means of extending the life of these forklifts.
- Results
 - Rochester Institute of Technology (RIT) has experience in the area of anaerobic digestion and hydrogen fuel cells, the latter potentially being a more environmentally friendly alternative to methanol fuel cells. As a result, NYSP21 is recommending that Baldor apply to the Direct Assistance (DA) program. Baldor is not an ideal candidate for the EPA grant.

On-site Technical Assistance – NYSP2I

- Industrial Diamond Laboratories

Industrial Diamond Laboratories (IDL) reclaims spent Micron (small diamonds and artificial diamonds) from industrial processes. Shipments of spent micron are sent to the company where they are washed with acid, cooked, dried, and strained until they resemble shining gold/green crystals. This reclaimed Micron is then sent back to the companies for re-use.



Images: NYS-2pl & NYC-EJA



On-site Technical Assistance – NYSP2I

- Industrial Diamond Laboratories
- Areas of Opportunity
 - IDL currently uses large quantities of strong acids (Sulfuric, Hydrochloric, Nitric, and some Hydrofluoric) in their reclamation process. Once used, the acids are diluted with water and washed down the drain.
 - IDL mentioned that they would appreciate new fans and blowers for the back of their facility, where acid has corroded and damaged fans over time.
- Results
 - NYSP2I initially performed research to determine if there is a commercially available alternative to the acid etching process, which proved unsuccessful. However, better management of the acid neutralization process may be a viable project. The current neutralization process takes place in a sink and poses high exposure risks. An enclosed system with controls would reduce/minimize toxic risk exposure.

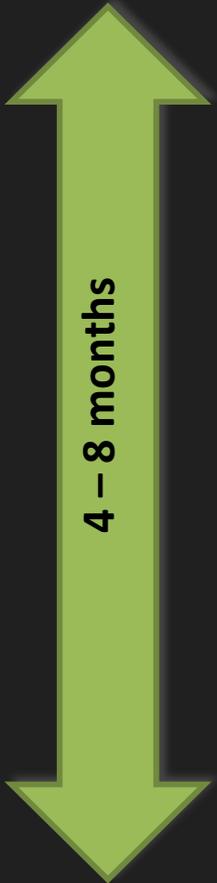
On-site Technical Assistance – NYSP2I

- **Hunts Point Service Station**
 - Hunts Point Service Station is an auto repair and service station which disposes of large amounts of waste oil, filters, rags and solvents. Currently, the rags are thrown away, and the remaining chemicals are mixed together and shipped away as hazardous waste. The oil filters are picked up by a recycling company.
- **Areas of Opportunity**
 - Hunt's Point currently uses chlorinated solvents as part of their cleaning operation. There is an opportunity to reduce or eliminate the use of chlorinated solvents through the use of an in house parts cleaner.
 - Hunt's Point has expressed interest in obtaining an oil filter crusher for their facility. This machine would serve two purposes: first, oil inside the filters can be removed and recovered for off-site recycle; second, the volume and subsequent recycling costs of waste filters would be significantly reduced through compaction.
- **Results**
 - Hunts Point Service Station is a good candidate for the EPA grant. NYSP2I is scoping a project with the potential environmental metrics: hazardous material use &/or waste reduction.

On-site Technical Assistance – NYSP2I

Stages:

1. Develop and execute project agreements
2. Verify pre-implementation metrics (baseline)
3. Provide support with equipment selection, training needs, etc.
4. Monitor and provide input on implementation
5. Collect post-implementation metrics
6. Reimburse up to \$10,000 in eligible costs (equipment and external labor support)
7. Prepare a summary report
8. Prepare a case study



4 - 8 months

Best Practices Toolkit

Collation of best practices/technologies pertaining to:

- Performing baseline assessments to identify compliance, P2 and climate resiliency opportunities
- Reducing/mitigating environmental and human health impacts through process improvements/alternative tech.
- Climate resiliency planning and strategies
- Technical and financial resources that support NYS companies
- Case studies of two implementations from this project

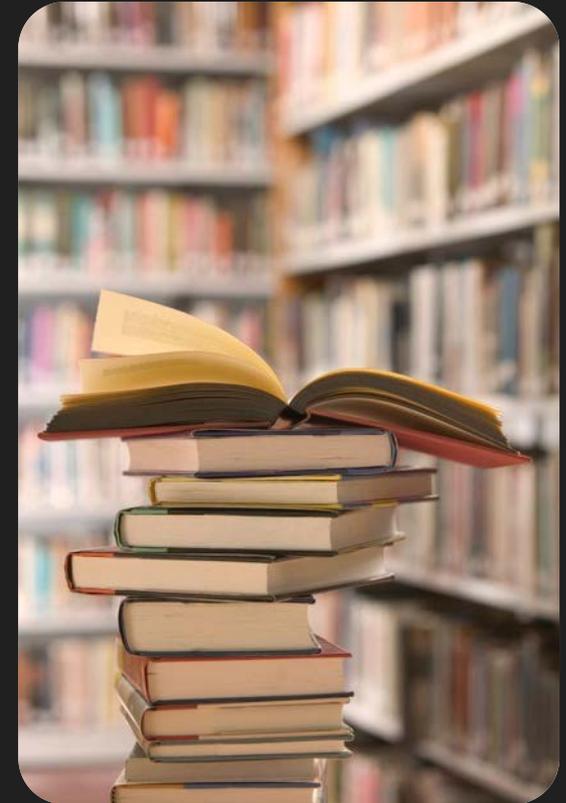


Image Source: Microsoft® Clip Art

Best Practices Toolkit

Approach in creating the toolkit:

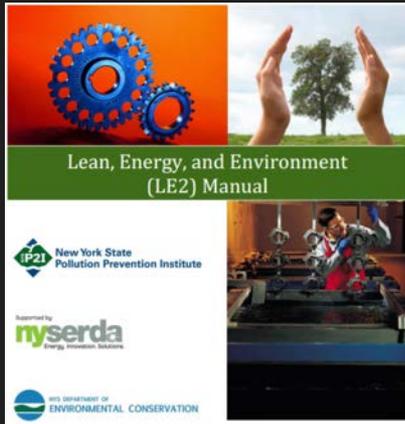


Image Source: NYSP2I

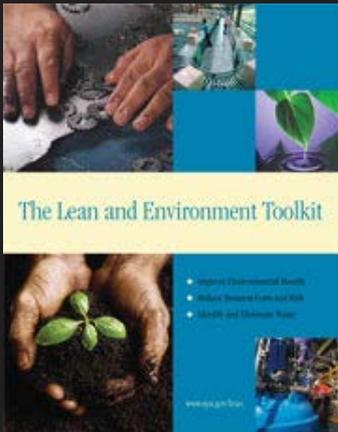


Image Source: USEPA

- Benchmark existing toolkits
 - USEPA: Lean Manufacturing and the Environment
 - Other State P2 toolkits
 - USEPA: Sector Notebooks
 - Industry Association & Planning Reports
- Consult with Industry Experts
- Leverage in-house knowledge and expertise

Knowledge Dissemination and Technology Transfer

- Host two workshops in the project geography after completion of implementations and toolkit
- Write and publish project article in project partner newsletters & other media
- Promote content through networks of various stakeholders:
 - US-EPA
 - NYS-DEC
 - NYC-EJA
 - NYS-P2I

Competitiveness, Innovation, and Sustainability

Mark C. Coleman and Rajiv Ramchandra, Rochester Institute of Technology

Image Source: Printing Industries of America

P2 Pathways

Supply-chain fixes are the secret sauce for three NY companies

Trish Donohue and Anahita Williamson
Tuesday, October 21, 2014 - 7:00am

Image Source: www.greenbiz.com

Discussion

- Discuss candidates for technical assistance
- Discuss upcoming opportunities for business engagement
- Feedback on date/time and locations for upcoming workshops

THANK YOU!

For additional information please contact us

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NYC Environmental Justice Alliance

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