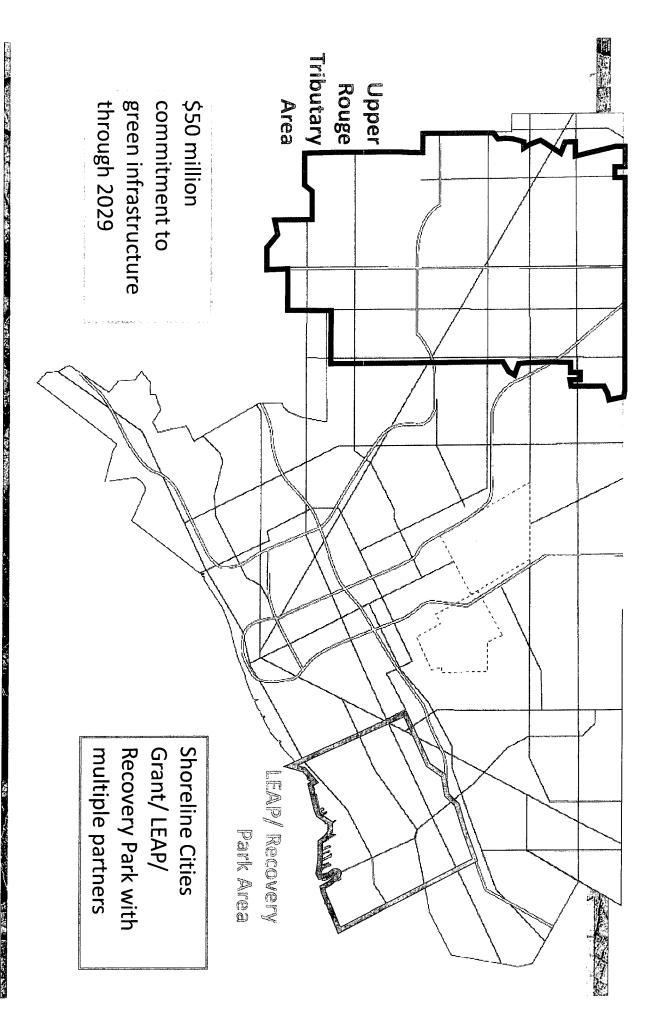


# Green Infrastructure Program

August 28, 2014



### 

### Lower East Side Action Plan:

- 30 50 vacant lots converted to green infrastructure (meadow – stormwater trees)
- Monitoring of benefits

#### Recovery Park:

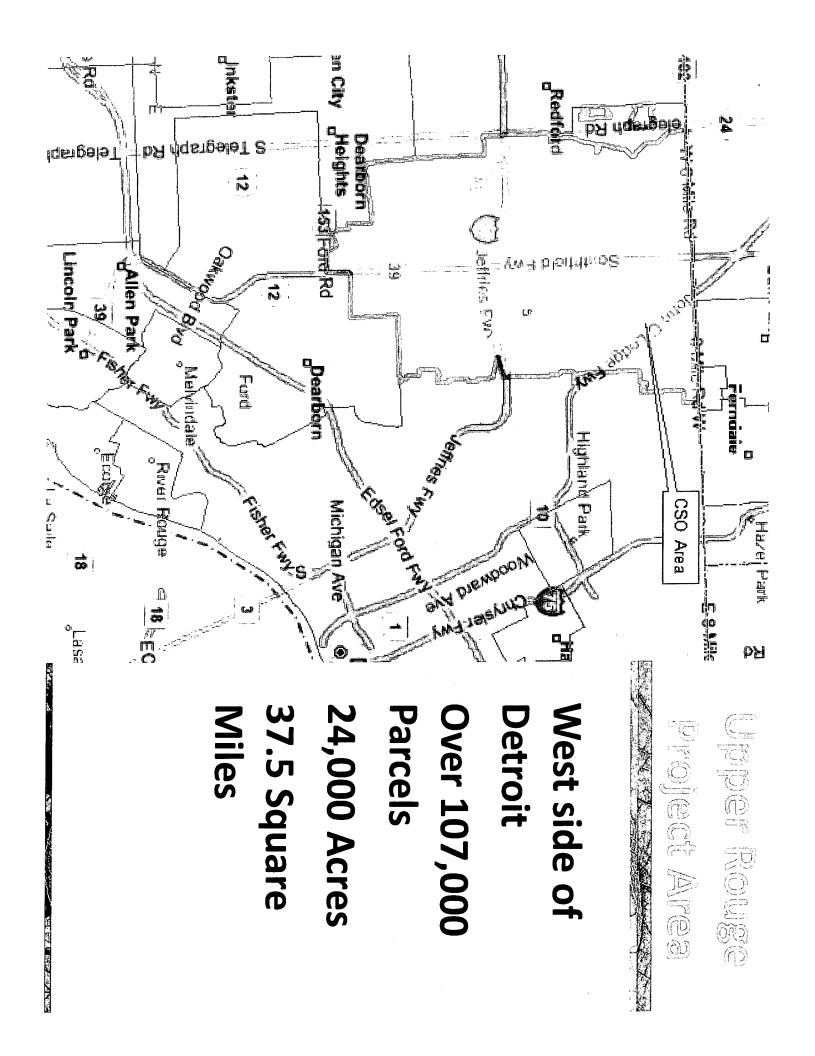
30 acre Greenhouse Farm. Runoff from roadways practices and sites will be directed to green infrastructure

### sewer system. Reduce stormwater that enters the combined

THE RESENT FOR GROOT

to the elimination of a requirement for a \$1 facilities were part of an alternate plan that led Green infrastructure coupled with smaller CSO Billion tunnel.

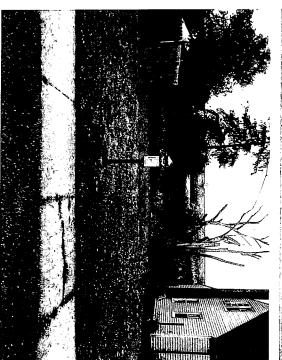
Goal is to maximize flow removal for level of investment ( ROI = flow removal)



### DWSD Activities

#### Demolished 80 homes Greened 10 vacant lots





A STATE OF THE STA











Michig Fast Ti

space



DETROIT GREENWAYS COALITION









SCHOOLS PUBLIC

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# THE RESIDENTIFIED IN URT Plan

Standards Activity 1 – Policies, Procedures, and

Activity 2 – Prototype Projects Engagement Activity 5 — Stakeholder and Community Activity 4 – Long Term Performance Activity 3 – Continued Implementation

## Policies and Procedures ( cont.)

#### Redevelopment provides opportunities to green infrastructure address both flood control measures as well as

- EX: Wayne County Drainage Standard flood control
- >5 Acres Detain 100 yr Storm event w/controlled release <5 Acres - Detain 10 yr Storm w/controlled release
- Water quality measures to remove 8% of TSS (first flush controls)

### THAT THE TUNE TO TUNE IN

## The drainage charge recovers the following costs:

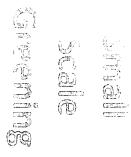
- Capital for DWSD's investment in CSO Control:
- \$1 Billion
- Ongoing treatment of runoff
- WWTP
- CSO facilities

weather bill (treatment \$'s in the short term, \$'s Green infrastructure helps reduce the wet in capital avoidance in the long term)

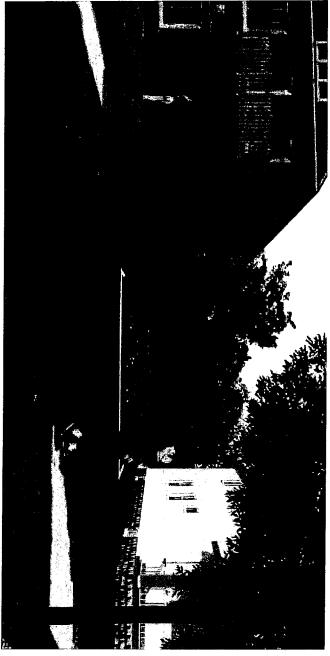
Assists in sustainings affordability

## THE PROJECTS

Small Scale Greening
Large Scale Greening
Public Facilities
Municipal Parks
Transportation Corridors









#### Objective:

- Use open space for stormwater management community. where it can also support a beneficial use for the
- Stormwater management would focus on stormwater management from adjacent areas impervious surface (road) removal and
- One exploratory project

### Fansportation Greening

#### Objective:

- Install green infrastructure along streets to manage runoff.
- DWSD is working with DPW to include green infrastructure with resurfacing projects in 2015.
- Amount of implementation to be determined

### Public Facility Greening

### Potential site types

- DWSD facilities
- City buildings
- Schools
- Parks
- Public housing

Through June 2015 — develop five projects for implementation

## Activity 3 - Continued Implementation

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**Residential Downspouts** 

Several thousand disconnected

SFR Downspouts other than Evaluation and pilot projects

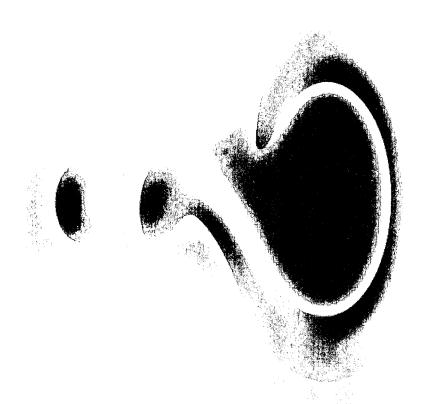
**Demolitions** Under review; strategic

. Tree Planting 100

1000 trees or more

### ACTIVITY TO VERY OF CITY OF SEA TORNING WITH Engagement

- (1) the storm water drainage charge
- Costs, methodology & allocation, credits
- (2) green infrastructure program projects and implementation and
- and small and large property owners for general public, engineering community (3) green infrastructure educational resources



Commence of the second