### How do you select good sites for green infrastructure?



- Identify Green Infrastructure Opportunities
  - Identification of Target Watersheds
  - Primary Screening
    - Eliminate unfeasible parcels
  - Secondary Screening
    - Prioritize implementation opportunities

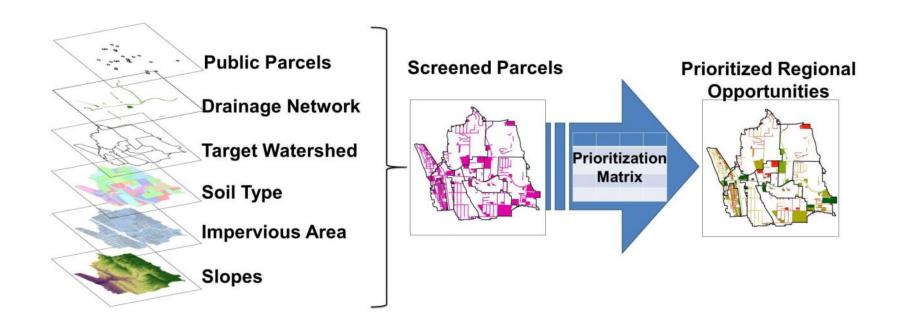


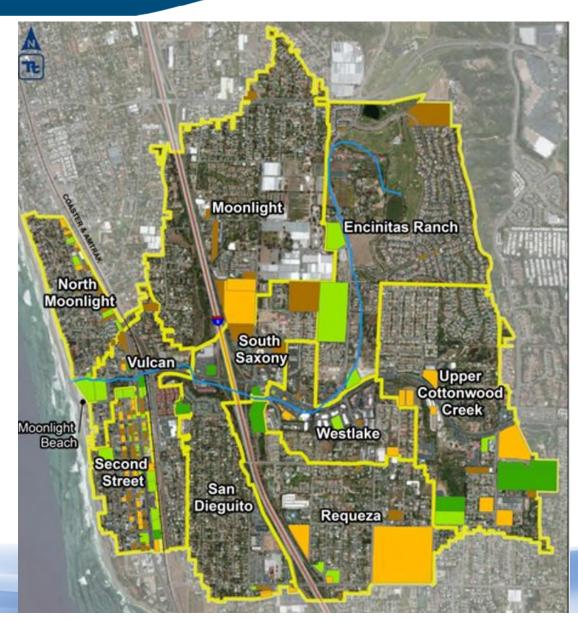


Parcel-based green infrastructure	ROW green infrastructure
<ul> <li>Public ownership (except in special cases, per Table 3-1)</li> <li>Proximity to targeted subwatershed</li> <li>Proximity to environmentally sensitive or protected areas</li> <li>Infiltration capacity</li> <li>Parcel size (large-scale)</li> <li>Impervious parcel area</li> <li>Percent impervious</li> <li>Proximity to storm drainage networks</li> <li>Proximity to contaminated soils</li> <li>Proximity to existing BMPs</li> <li>Proximity to parks and schools</li> <li>Contributing drainage area (large-scale)</li> </ul>	<ul> <li>Proximity to targeted subwatershed</li> <li>Infiltration capacity</li> <li>Available width</li> </ul>
<ul><li>Drainage area percent imperviousness (large-scale)</li><li>Known stormwater/MS4 capacity issues</li></ul>	

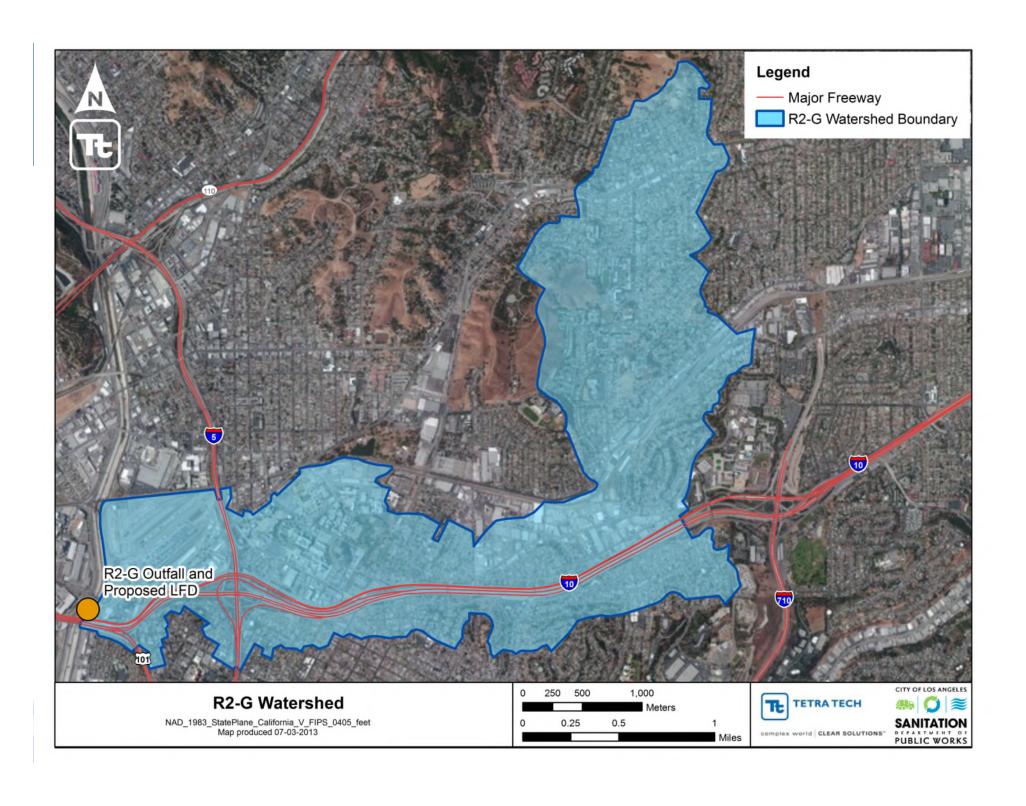


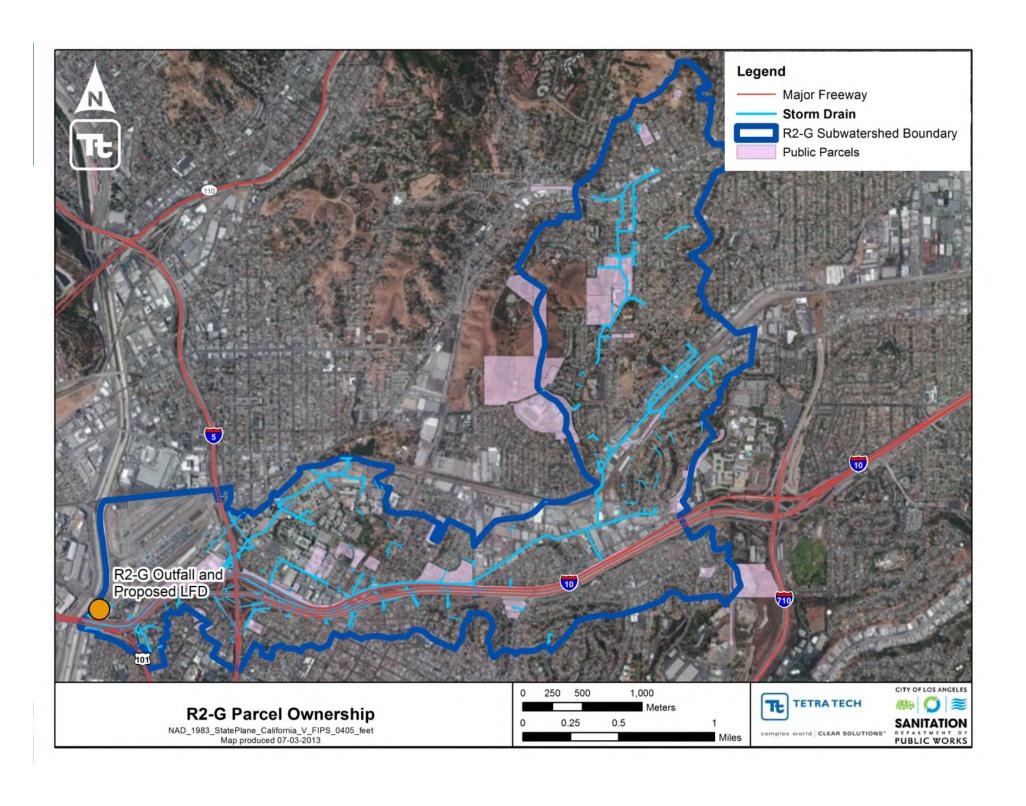
	Score (5 = Highest Priority, 1 = Lowest Priority)					
Factor	5	4	3	2	1	
Public ownership	City- or town- owned public parcels and ROWs	Other-owned public parcels (schools and universities, state and federal facilities, utilities, etc.) and certain private parcels.				
Proximity to target subwatershed <sup>1</sup>	Within target subwatershed				Within subwatershed draining to target watershed	
Proximity to environmentally sensitive or protected areas (feet) <sup>2</sup>	< 100, but not within a sensitive or protected area					
Infiltration Capacity (HSG soil type)	А, В		С		D	
Impervious area (acres)	> 1	> 0.5	> 0.25	> 0.1		
% Imperviousness	60%-80%	80%–90%			< 50%	
Proximity to storm drainage network (feet)			< 100	< 300	> 300	

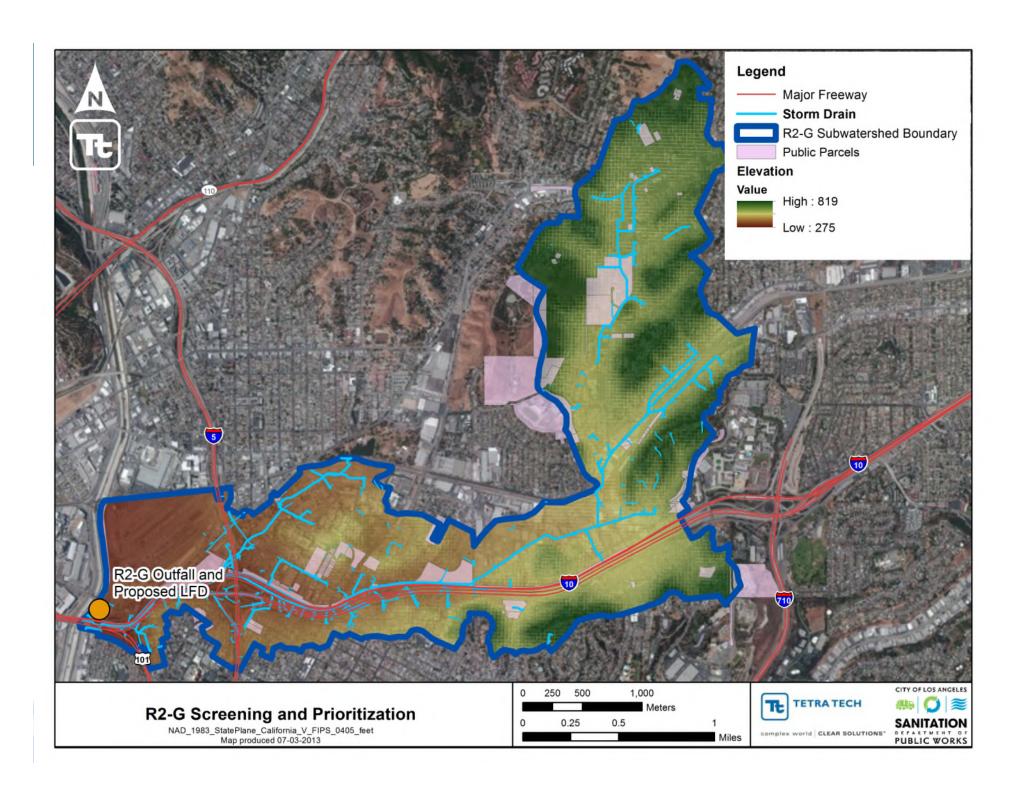


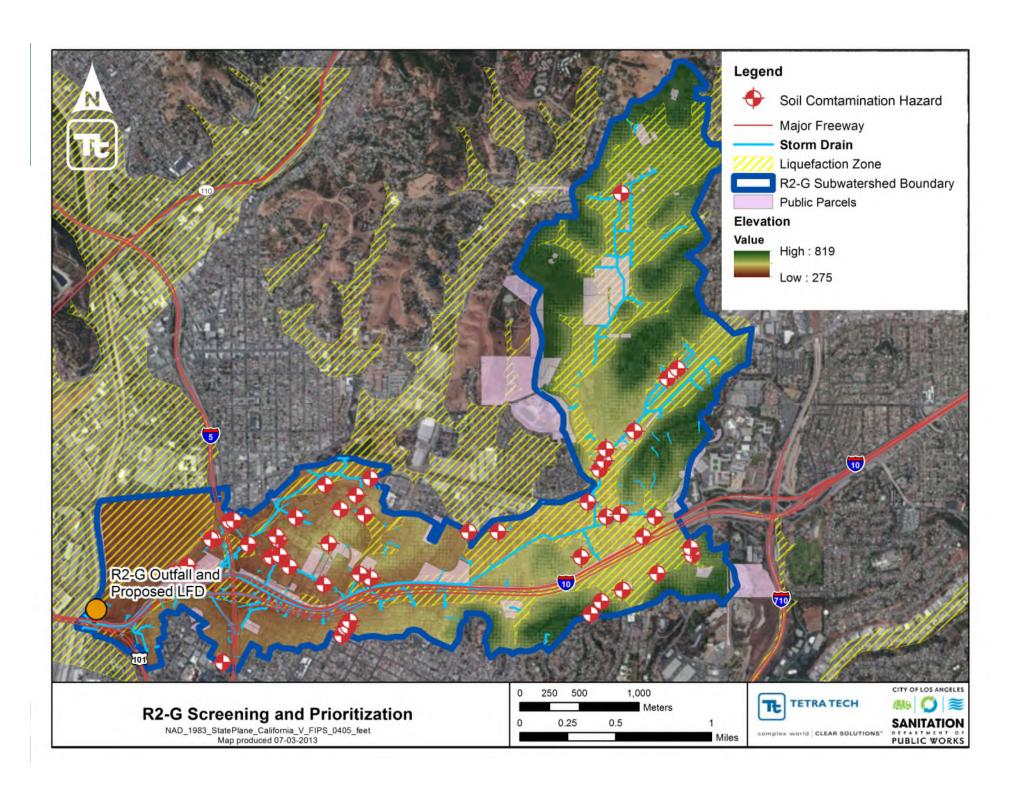


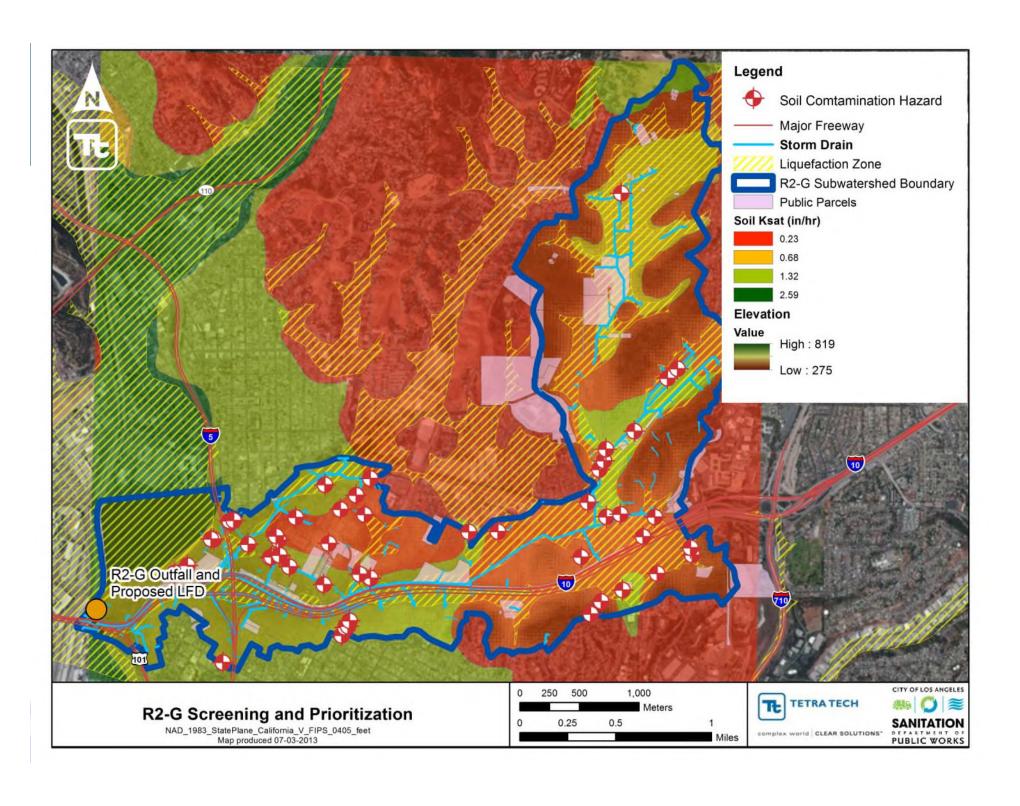


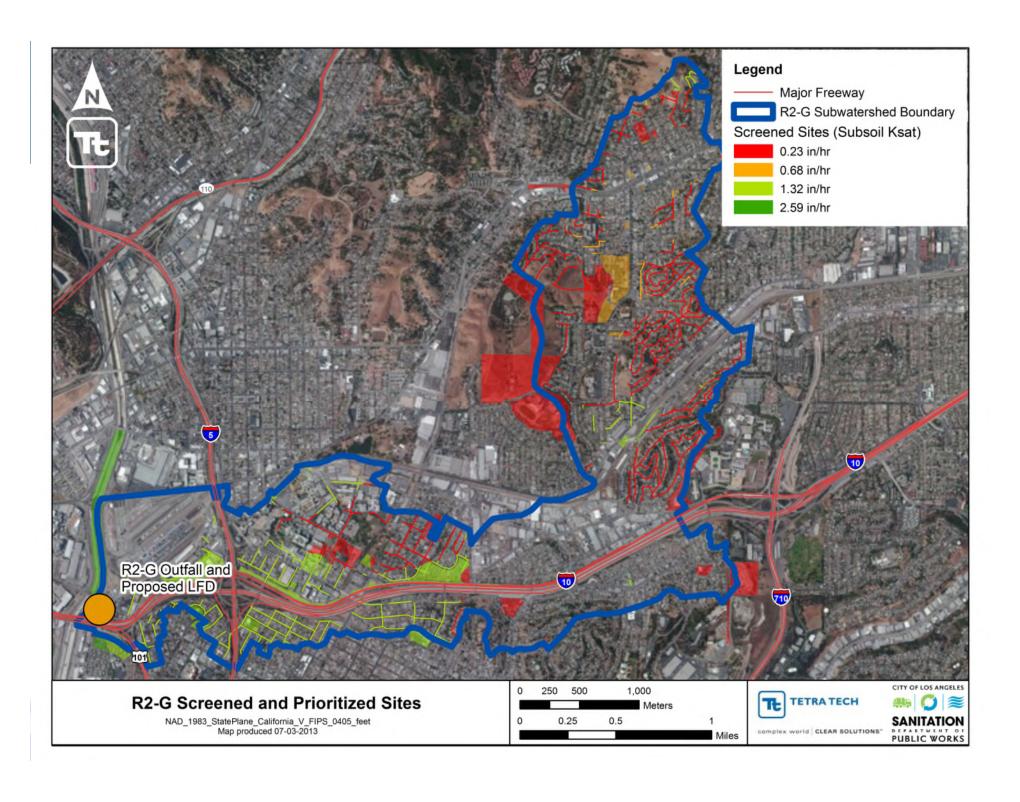


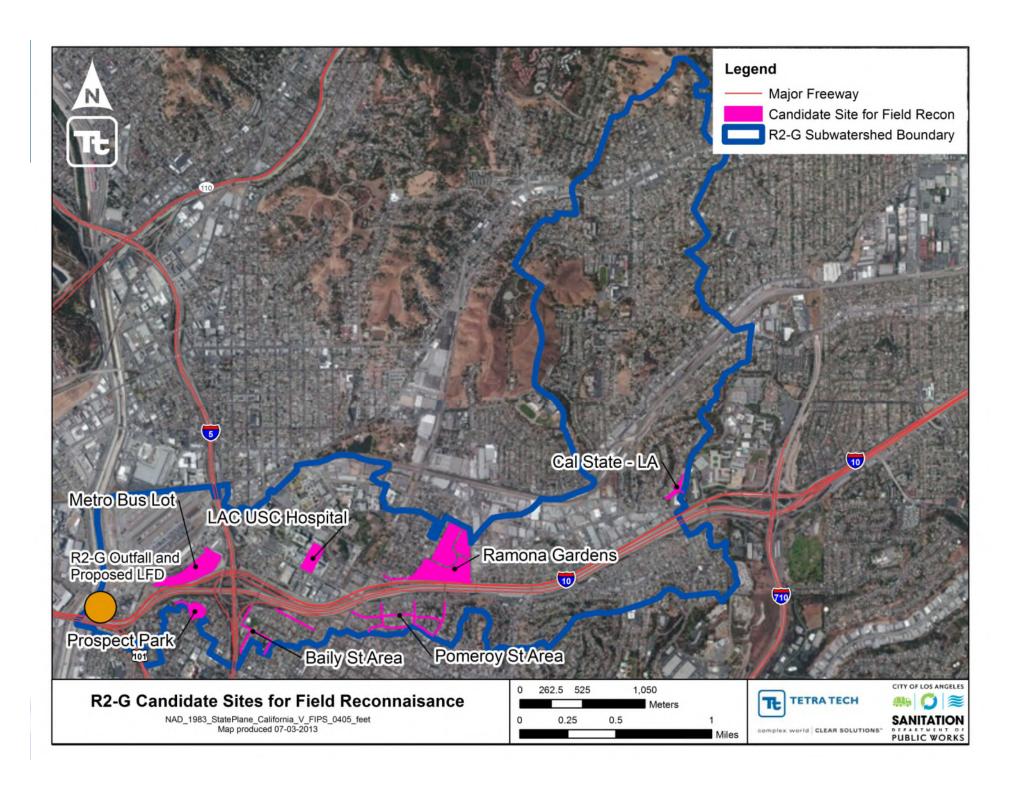












### What's missing?

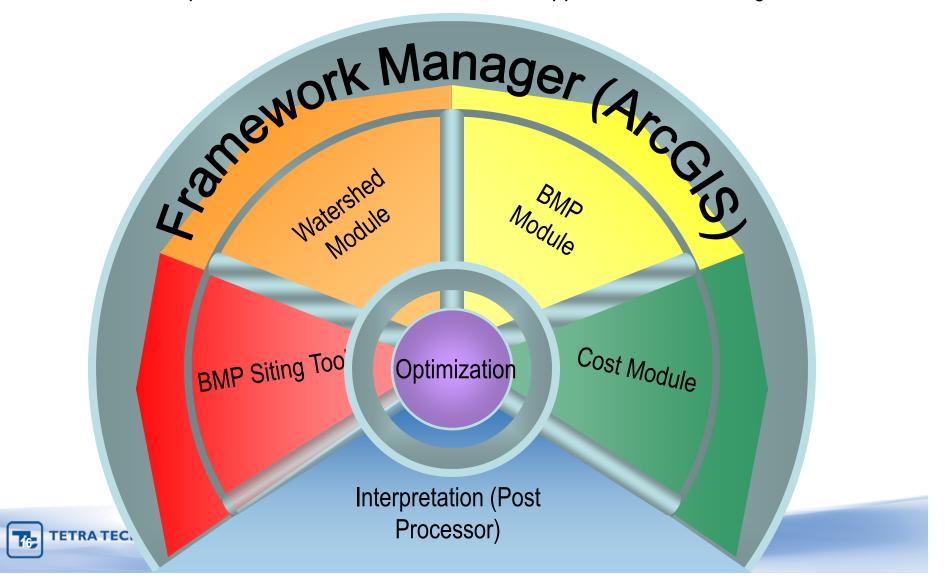
Given climate change projections for Albuquerque, what other factors do you need to add to this GIS screening?

### How do you select good sites for green infrastructure?



## **SUSTAIN** – System for Urban Stormwater Treatment and Analysis INtegration

EPA Sponsored GIS-based framework to support decision-making

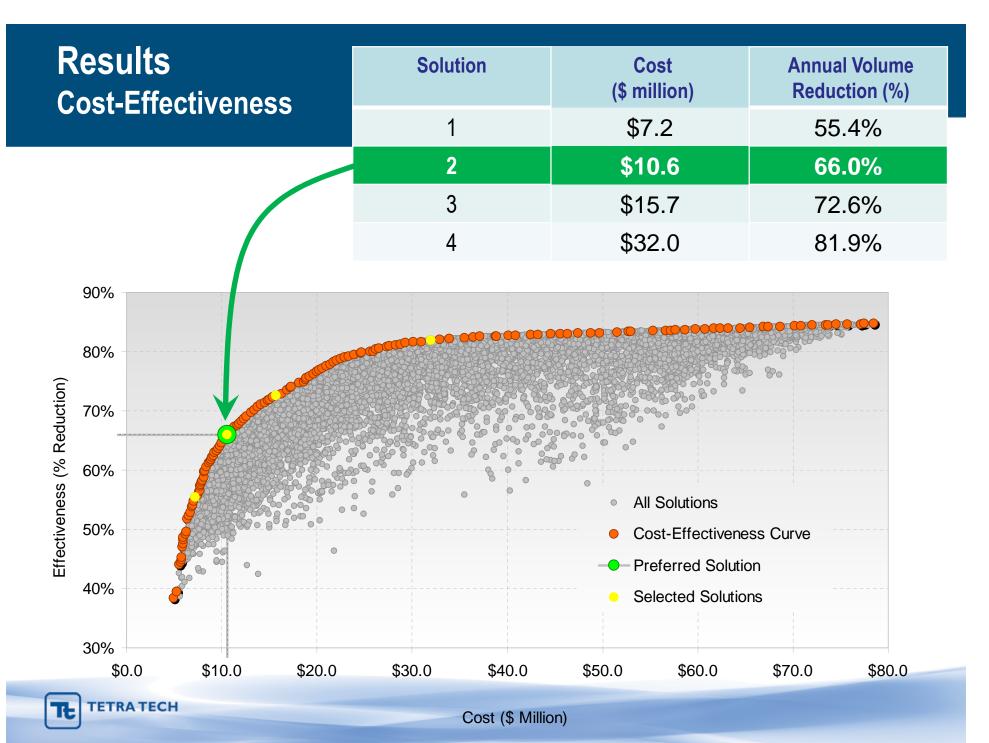


### **Place BMPs and Network Linkages**



## Identify Assessment Points & Optimization Objectives/Constraints

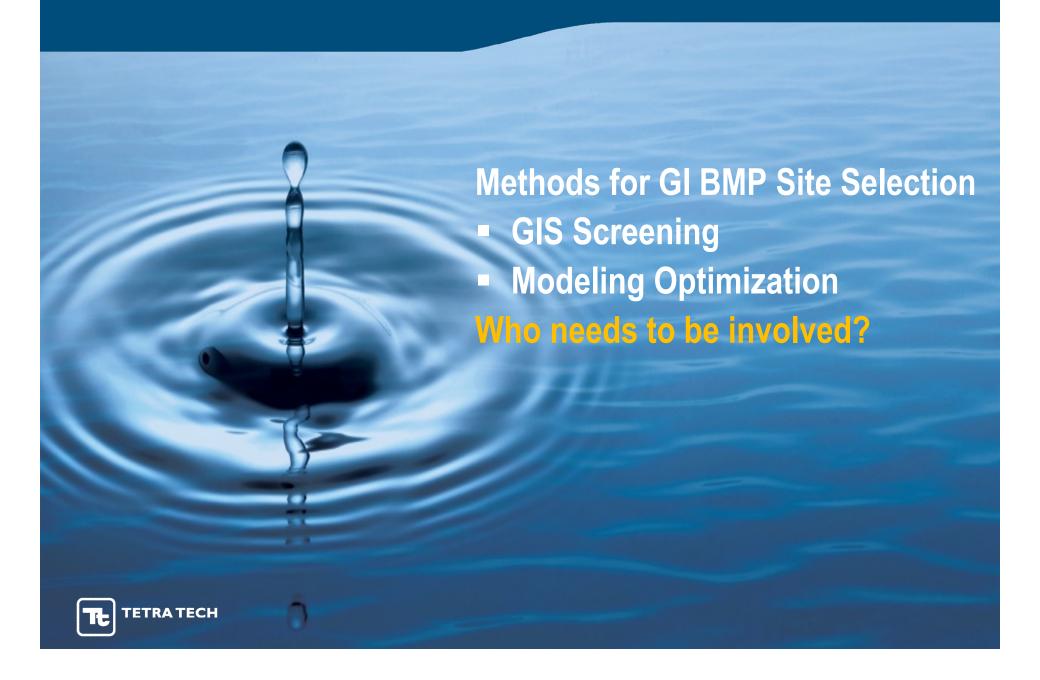




#### **Benefits of Optimization Approach**

- Provides recommended location, size, order and phasing of structural BMPs
- Greater long-term cost savings
- Higher assurance investments in BMPs will meet objectives
- Realistic assessment of what's achievable
- Supports adaptive approach

### How do you select good sites for green infrastructure?



### Who needs to be part of the discussions and decisions on site selection?

- Stormwater Engineering
- Planning Dept.
  - Long Range Planning
  - Development Review
- Water Utility
- Transportation
  - Planning
  - Engineering

- Parks and Recreation
- City Arborist
- School System
- State DOT
- Regional Land Trust
- Homeowners' Associations
- Who else?

#### **Questions and Discussion**

